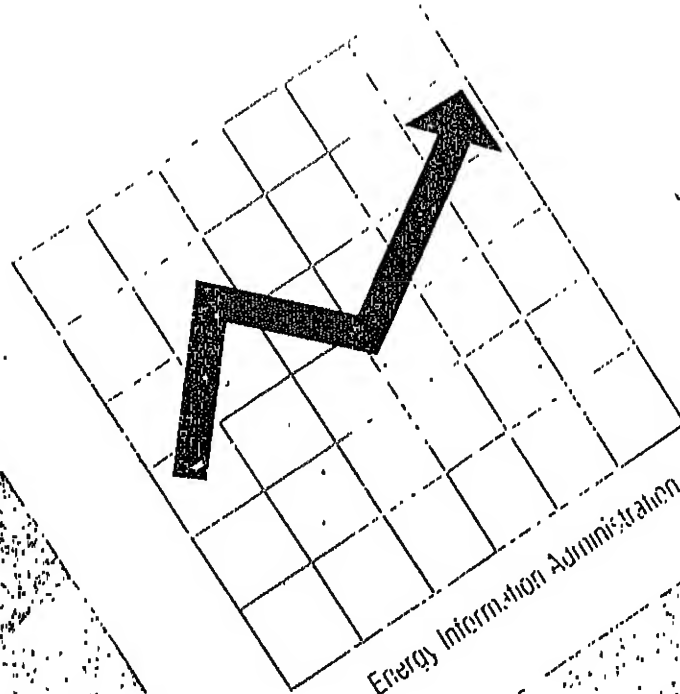


DOE/EIA-0380(93/11)

November 1993

# Petroleum Marketing Monthly



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- Heating fuel data  
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- Oxygenate data  
Updated approximately the 25th of the month.
- *Weekly Petroleum Status Report*  
Updated on Wednesdays (Thursdays in the event of a holiday) at 5:00 p.m.
- *Petroleum Supply Monthly*  
Updated on the 20th of the month.
- *Petroleum Marketing Monthly*  
Updated on the 20th of the month.
- *Natural Gas Monthly*  
Updated on the 20th of the month.
- *Weekly Coal Production*  
Updated on Fridays at 5:00 p.m.
- *Quarterly Coal Report*  
Updated 60 days after the end of the quarter.
- *Electric Power Monthly*  
Updated on the 1st of the month.
- *Monthly Energy Review*  
Updated the last week of the month.
- *Short Term Energy Outlook*  
Updated 60 days after the end of the quarter.
- *Winter Fuels Report* (October through April)  
Updated Thursdays at 5:00 p.m.





# Preface

The *Petroleum Marketing Monthly* is prepared by the Petroleum Marketing Division, Office of Oil and Gas, Energy Information Administration.

The *Petroleum Marketing Monthly* (PMM) is designed to give information and statistical data about a variety of crude oils and refined petroleum products. The publication provides statistics on crude oil costs and refined petroleum products sales for use by industry, government, private sector analysts, educational institutions, and consumers. Data on crude oil include the domestic first purchase price, the f.o.b. and landed cost of imported crude oil, and the refiners' acquisition cost of crude oil. Sales data for motor gasoline, distillates, residuals, aviation fuels, kerosene, and propane are presented.

## Scope of Data

The data within the *Petroleum Marketing Monthly* are compiled from six Energy Information Administration (EIA) survey forms. The crude oil statistics are calculated from data collected on the following three survey forms: Form EIA-182, "Domestic Crude Oil First Purchase Report"; Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report"; and Form EIA-14, "Refiners' Monthly Cost Report."

The statistics on petroleum product sales prices and volumes are derived from Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report" and Form EIA-782B, "Resellers/Retailers' Monthly Petroleum Product Sales Report."

The data presented in Tables 47 to 49 are derived from aggregations of data from the Form EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption."

Information concerning standard errors for prices of motor gasoline, No. 2 distillate (including No. 2 fuel oil), and residual fuel oil, are presented in Tables 50 to 54. The Form EIA-782 survey response rates are presented in Table 55.

## Sections

Monthly statistics on purchases of crude oil and sales of petroleum products are presented in the *Petroleum Marketing Monthly* in five sections:

- Summary of Crude Oil and Petroleum Products
- Crude Oil Prices
- Sales Prices of Petroleum Products
- Sales Volumes of Petroleum Products
- Prime Supplier Sales Volumes of Petroleum Products for Local Consumption.

The publication highlights salient statistics for the United States in the summary section. More detailed geographic coverage occurs in the other four sections. Geographic coverage for crude oil includes country of origin for foreign crude and Petroleum Administration for Defense (PAD) Districts and individual States for domestic crude oil. Geographic coverage of the petroleum products includes PAD Districts and individual States.

Detailed statistics for crude oil, including the price of imported crude oil by country of origin, by gravity, and by crude stream, can be found in the Crude Oil Prices section. The Product Guide located at the end of this publication provides a detailed breakdown of the table coverage.

PAD District and/or State-level statistics for petroleum products are presented in the Prices, Volumes, and Prime Supplier Sales of Petroleum Products sections. To aid the reader in determining the market changes, the majority of the tables show data for the report month and previous month for the current year, and the report month for the previous year.

## Notes on the Tables

- For the crude oil statistics referencing Form EIA-182, United States includes the 50 States, the outer continental shelf, and the District of Columbia. For crude oil statistics referencing either Form EIA-14 or Form EIA-856, United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American territories and possessions. For the petroleum

products data, United States includes the 50 States and the District of Columbia.

- Prices exclude taxes. Refer to the Explanatory Notes for a tax table on motor fuels.
- Some of the tables use State abbreviations. Refer to the Explanatory Notes for a table of U.S. Postal State abbreviations.
- "Seller" comprises the categories of major refiners, other refiners (including gas plant operators), and resellers as defined in the Glossary.
- References to "Refiners" include gas plant operators (see the Glossary for definition of "Gas Plant Operators.").
- "Prime Supplier" refers to a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users.
- The category "Company Outlets" refers to sales made through company-operated retail outlets (see Glossary).
- No. 2 distillate volumes and prices are classified in accordance with what the product was sold as, regardless of the actual specifications of that product (see definitions of No. 2 distillate in the Glossary).

# ***Contents***

	Page
Feature Articles .....	1
Highlights .....	21
Summary Statistics .....	25
Crude Oil Prices .....	55
Sales Prices of Petroleum Products .....	71
Sales Volumes of Petroleum Products .....	123
Prime Supplier Sales Volumes of Petroleum Products for Local Consumption .....	143
Standard Errors and Survey Response Percentages .....	157
Explanatory Notes .....	173
Product Guide .....	189
Glossary .....	193

# Tables

Page

## Summary Statistics

1. Crude Oil Prices .....	26
2. U.S. Refiner Prices of Petroleum Products to End Users .....	28
3. U.S. Refiner Volumes of Petroleum Products to End Users .....	30
4. U.S. Refiner Prices of Petroleum Products for Resale .....	32
5. U.S. Refiner Volumes of Petroleum Products for Resale .....	34
6. U.S. Refiner Petroleum Product Prices to End Users by Seller .....	38
7. U.S. Refiner Petroleum Product Prices for Resale by Seller .....	38
8. U.S. Refiner Petroleum Product Volumes to End Users by Seller .....	39
9. U.S. Refiner Petroleum Product Volumes for Resale by Seller .....	39
10. U.S. Refiner Total Motor Gasoline Prices, Volumes, and Percentages by Seller .....	40
11. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type .....	41
12. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type .....	42
13. U.S. Refiner Total Motor Gasoline Prices by Seller .....	44
14. U.S. Refiner Total Motor Gasoline Volumes by Seller .....	45
15. U.S. No. 2 Distillate Prices .....	46
16. Prices of No. 2 Distillate to Residences by Selected States .....	48
17. U.S. Refiner Residual Fuel Oil Prices .....	50
18. U.S. Refiner Residual Fuel Oil Volumes .....	52

## Crude Oil Prices

19. Crude Oil Refiner Acquisition Costs .....	57
20. Domestic Crude Oil First Purchase Prices .....	58
21. FOB Costs of Imported Crude Oil by Selected Country .....	61
22. Landed Costs of Imported Crude Oil by Selected Country .....	62
23. FOB Costs of Imported Crude Oil by API Gravity .....	63
24. Landed Costs of Imported Crude Oil by API Gravity .....	64
25. Percentages of Total Imported Crude Oil by API Gravity .....	65
26. FOB Costs of Imported Crude Oil for Selected Crude Streams .....	66
27. Landed Costs of Imported Crude Oil for Selected Crude Streams .....	68

**Sales Prices of Petroleum Products**

28. Refiner/Reseller Motor Gasoline Prices by Grade, PAD District and State .....	73
29. Refiner/Reseller Motor Gasoline Prices to End Users by Grade, PAD District, and State .....	77
30. Refiner/Reseller Total Motor Gasoline Prices by Seller, PAD District, and State .....	81
31. Refiner/Reseller Leaded Gasoline Prices by Seller, PAD District, and State .....	85
32. Refiner/Reseller Unleaded Regular Gasoline Prices by Seller, PAD District, and State .....	89
33. Refiner/Reseller Unleaded Midgrade Gasoline Prices by Seller, PAD District, and State .....	93
34. Refiner/Reseller Premium Gasoline Prices by Seller, PAD District, and State .....	97
35. Refiner Prices of Aviation Fuels and Propane by PAD District and State .....	101
36. Refiner Prices of Kerosene and Distillates by PAD District and State .....	105
37. No. 2 Distillate Prices by Seller, PAD District, and Selected States .....	109
38. No. 2 Distillate Prices by Sales Type, PAD District, and Selected States .....	112
39. No. 2 Fuel Oil Prices by Sales Type, PAD District, and Selected States .....	115
40. Refiner No. 4 and Residual Fuel Oil Prices by PAD District .....	118
41. Residual Fuel Oil Prices by PAD District and Selected States .....	119

**Sales Volumes of Petroleum Products**

42. Refiner Total Motor Gasoline Volumes by Seller, PAD District, and State .....	125
43. Refiner Motor Gasoline Volumes by Grade, PAD District, and State .....	129
44. Refiner Volumes of Aviation Fuels and Propane by PAD District and State .....	133
45. Refiner Volumes of Kerosene and Distillates by PAD District and State .....	137
46. Refiner No. 4 and Residual Fuel Oil Volumes by PAD District .....	141

**Prime Supplier Sales Volumes of Petroleum Products for Local Consumption**

47. Prime Supplier Sales Volumes of Motor Gasoline by Grade, PAD District, and State .....	145
48. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State .....	149
49. Prime Supplier Sales Volumes of Distillate Fuel Oils by PAD District and State .....	153

**Standard Errors and Survey Response Percentages**

50. Standard Errors of Total Motor Gasoline Prices by Sales Type, PAD District, and State .....	159
51. Standard Errors of Motor Gasoline Prices by Grade, PAD District, and State .....	162
52. Standard Errors of No. 2 Distillate Prices by Sales Type, PAD District, and Selected States .....	165
53. Standard Errors of No. 2 Fuel Oil Prices by Sales Type, PAD District, and Selected States .....	167
54. Standard Errors of Residual Fuel Oil Prices by PAD District and Selected States ....	169
55. Response Rate by Entity, PAD District, and State .....	171

***Illustrations***

1. Comparison of Crude Oil Prices to U.S. Wholesale Product Product Prices .....	17
2. U.S. Refiner Retail Product Prices .....	19
3. U.S. Refiner Retail Product Volumes .....	31
4. U.S. Refiner Wholesale Product Prices .....	33
5. U.S. Refiner Wholesale Product Volumes .....	35
6. U.S. Refiner Retail Prices of Selected Products .....	36
7. U.S. Refiner Wholesale Prices of Selected Products .....	37
8. Percentages of Refiner Total Motor Gasoline Sales, U.S. Average .....	40
9. U.S. Refiner Total Motor Gasoline Sales Volumes .....	43
10. U.S. No. 2 Distillate Average Retail Prices .....	47
11. U.S. Refiner Residual Fuel Oil Prices .....	51
12. U.S. Refiner Residual Fuel Oil Total Volumes .....	53

## **Feature Articles**

**Distillate Fuel Oil  
Outlook for Winter  
1993-94**

**Propane Outlook  
for Winter  
1993-1994**

The GDP grew 2.6 and 2.9 percent, respectively, in the first two quarters of 1993 from the corresponding quarters in 1992. The projected rates of growth for the third and fourth quarters of 1993 from comparable 1992 quarters are 2.9 and 2.5 percent, respectively. A sharp increase is forecasted for the first quarter of 1994 - 3.3 percent. These growth rates should lead to higher distillate fuel oil consumption in the industrial, transportation and electric utility sectors.

The world oil price (the refiner acquisition cost of imported crude oil) is assumed to average about \$17.60 per barrel, about 3% less than the 1992 average price. The projection for 1994 is near \$17.19 per barrel. As usual, there are unknown factors. The combination of Iraq potentially restoring their pre-war production levels, markedly higher exports from the former Soviet Union, significantly higher world excess production capacity, and a possible level of crude stocks similar to or above that in 1992 could put downward pressure on world oil prices.

Heating-oil demand is concentrated in the eastern part of the country. The New England and Mid-Atlantic States accounted for 70 percent of 1991 residential sector consumption and 52 percent of 1991 commercial sector consumption of distillate fuel oil. Residential sector consumption was about the same as the previous year, while commercial sector demand rose 3 percent in 1991. These two regions accounted for 23 percent of total distillate fuel oil consumption, the same as 1990.

## Supply Trends

Distillate fuel oil is supplied to the consuming sectors by domestic refinery production, net imports (imports less exports) and stock withdrawals.

## Refinery Production

Weather, domestic and foreign distillate fuel oil demand, crude oil prices, refinery margins and maintenance conditions all have been favorable to the refining industry this year. Distillate fuel oil production for the first half of 1993 was about 3.5 percent higher than 1992. During this period, refinery operating utilization rates were high, ranging between 91 and 97 percent. It appears that these rates could be sustained indefinitely and existing capacity is expected to be available to meet normal anticipated distillate fuel oil demand. Recently, many refiners increased throughput in order to lower the per unit cost of upgrades necessary to meet mandated environmental requirements.

During the 1992-93 heating season, distillate fuel oil production was at a sustained high level. If there is an additional call for distillate fuel oil supplies this winter, refiners should again be in a favorable position to maximize distillate fuel oil production. This is a consequence of the mandatory addition of oxygenates to gasoline again this winter. Oxygenates actually reduce the need to produce blending components for gasoline production through volume replacement. These components

include toluene, reformate and xylenes that are produced in refineries and petrochemical plants. As a consequence, this spare capacity could be used to refine incremental quantities of heating oil if winter demand exceeds current expectations.

Stronger product demand increased refinery throughput and pushed utilization rates higher in 1992. However, operating refining capacity slipped 2 percent last year to average 14.8 million barrels per day. The increase in input coupled with the decline in capacity boosted the operating refinery utilization rate to 91.6 percent. The decrease in capacity may continue as the cost of meeting new environmental regulations could result in further refinery shutdowns.

## Imports/Exports

The current distillate fuel oil import/export ratio is similar to the 1991-92 ratio. Exports have averaged 32 percent higher than imports during the first 5 months of 1993. For the comparable periods in 1992 and 1991, exports led imports by 19 and 24 percent, respectively.

However, on an annual basis, the distillate fuel oil import/export ratio has been one of near balance for the past 2 years. Imports averaged 216 thousand barrels per day in 1992. This was the first yearly gain following two declines associated with the economy. Foreign sources accounted for 7 percent of the U.S. demand for distillate fuel oil in 1992, nearly identical to the share in 1991. Combined shipments from Venezuela, the Virgin Islands, and Canada accounted for 93 percent of 1992 imports.

In 1992, exports nearly matched imports as they did in 1991. Countries in the Far East and Central and South America continued to provide a ready market for Petroleum Administration for Defense Districts (PADD) I, III and V distillate fuel oil. Sales of 219 thousand barrels per day to foreign countries were at about the same high level as in 1991. The Far East received 48 percent and countries in Central and South America accounted for 31 percent. Special attention is given to the Asia-Pacific region demand in the first sidebar.

## Stocks

Crude stocks provide refiners flexibility to meet demand surges for any product. With utilization rates high in 1993, refiners may have difficulty stepping up throughput to meet unexpected demand surges, even taking into account incremental capacity made available due to oxygenate production. This situation may place additional emphasis on strong distillate fuel oil stock builds.

Refiners began their 1993 distillate fuel oil inventory building season with April stocks 6 million barrels above the observed minimum of April 1992 (92 million barrels). A late winter storm and cold weather in the East resulted in movement of distillate fuel oil stocks from the South Atlantic into the



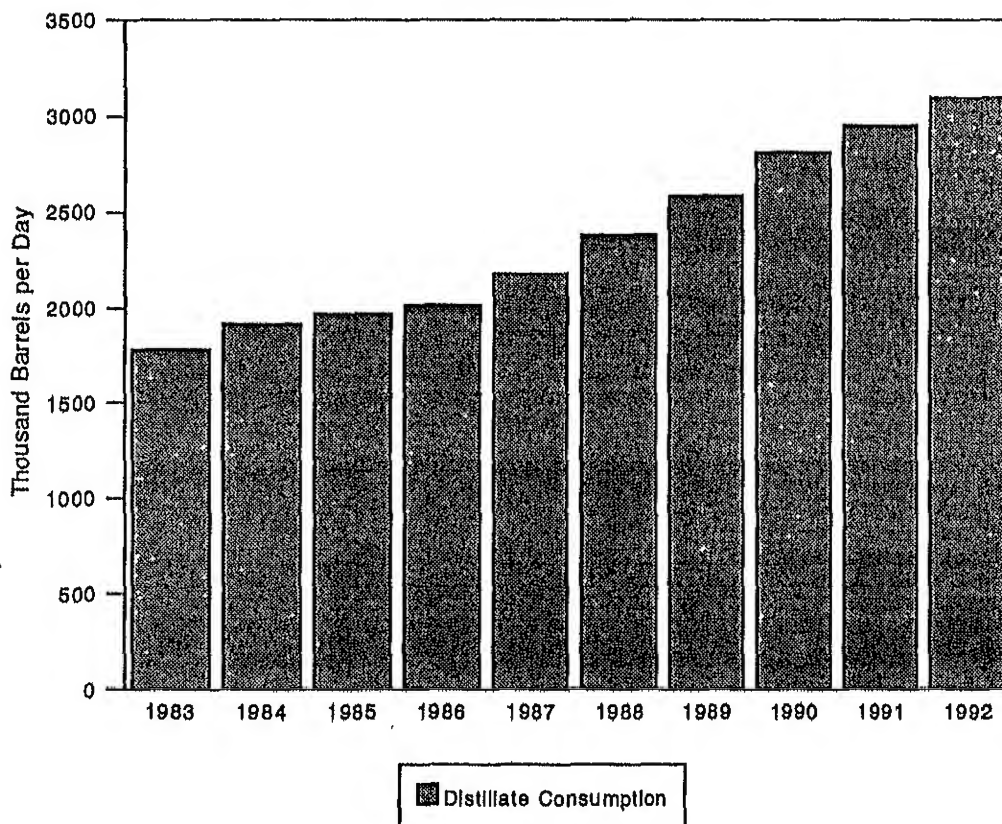
## Petroleum Product Demand in the Asia-Pacific Region

U.S. petroleum product exporters have found growing markets in the Asia-Pacific region. The demand for distillate and kerojet fuels has shown strong growth since 1990 and exports to the area have increased due to supply shortfalls. Continued strong petroleum demand growth through the 1990's and supply shortfalls are expected. U.S. exporting regions may feel impacts from this continued strong distillate demand.

The Asia-Pacific countries considered here are Australia, Indonesia, India, Japan, Malaysia, Pakistan, the Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. Despite sluggish economic growth worldwide, these countries have grown at 5 to 6 percent on average or about 1.5 times greater than other regions. These countries increased their demand for petroleum products by 6.3 percent in 1992.<sup>1</sup> Figure FE1 portrays distillate fuel oil consumption growth. Diesel fuel demand alone grew by 7.6 percent. Specifically, petroleum product demand grew 28 percent in Vietnam, 21 percent in the Philippines, 20 percent in Korea, and 11 percent in Thailand. Thailand's increases include a 31.7-percent growth in diesel fuel, mostly for industrial use, and a 3-percent growth in fuel oil for generating electricity.<sup>2</sup>

The demand growth arises from a number of factors. Overall, this is one of the most rapidly industrializing regions of the world. Due to this, the Asia-Pacific region has gained economic independence from large economic centers like the United States and Europe and has not been affected by economic recession in other regions. Different countries provide investment opportunities that stimulate growth and draw investment capital from international sources. The growth and the transportation sectors provide a large proportion of demand growth. Transportation fuels demand is expected to increase from 8 million barrels per day (MMbbl/d) in 1991 to 12 MMbbl/d in 2000. Motor vehicle ownership is expected to grow at an average rate of 4 percent per year.

Figure FE1. Distillate Fuel Consumption in the Asia-Pacific Region 1983 - 1992



Note: 1991 and 1992 are estimated assuming 5% growth in consumption.

Source: Energy Information Administration, *International Energy Annual*, DOE EIA-221B, (Washington, D.C., various issues).

<sup>1</sup>Oil and Gas Journal, May 18, 1993.

<sup>2</sup>Rollenberg's Oil Buyer's Guide, June 28, 1993.

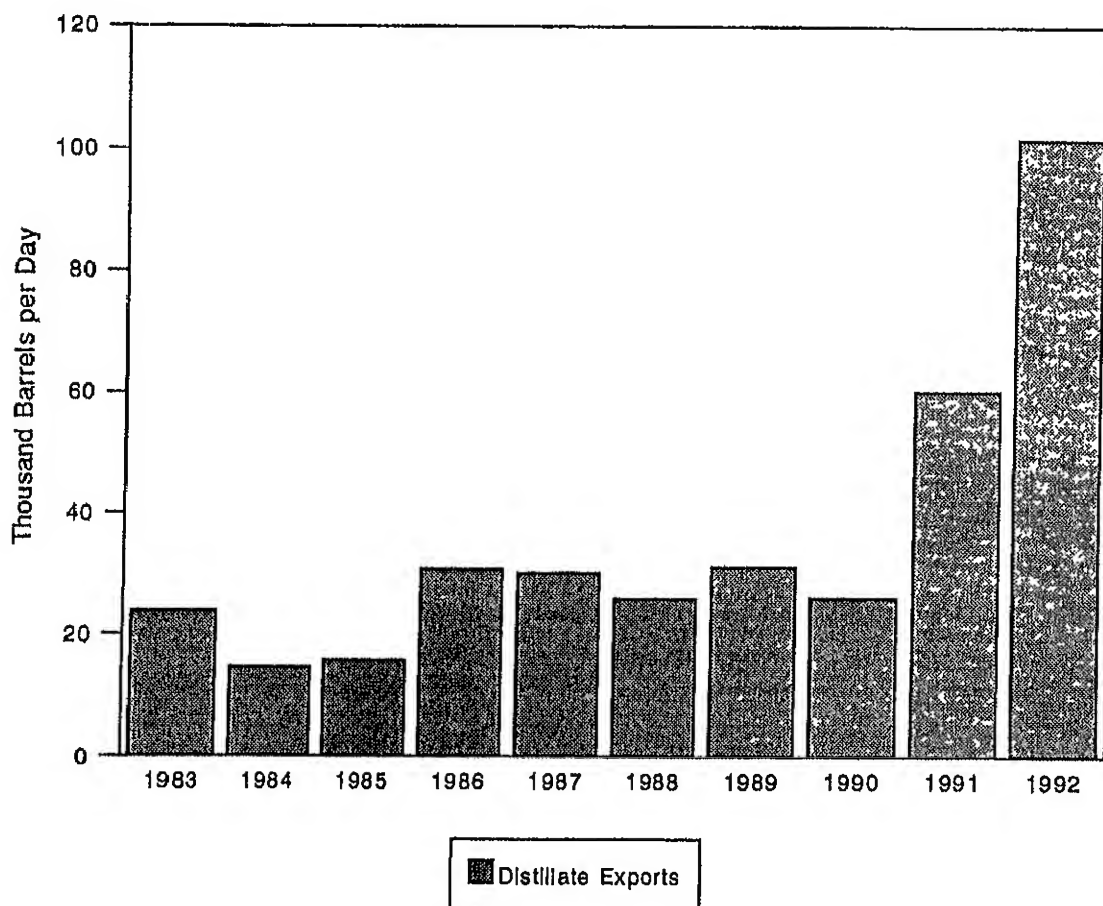
It is expected this level of demand growth may continue in the near future. The region's petroleum product demand was 13.6 MMbbl/d in 1991 and 14.5 MMbbl/d in 1992; estimates are for a demand of 16.4 MMbbl/d by 1995 and 19.1 MMbbl/d in 2000. This is a 6.6-percent yearly demand growth until 1995 and a 3.3-percent demand growth between 1995 and 2000.<sup>3</sup>

In response to these growing demands, the countries of the Asia-Pacific region have considerable planned refinery capacity expansion. One estimate shows a planned capacity expansion of 6 MMbbl/d in the next 7 years.<sup>4</sup> Singapore, Japan, and Thailand are constructing additions to current refineries. Thailand, Malaysia, and Indonesia are among the countries with plans for new refinery construction.

In recent years, Asian petroleum suppliers have had greater difficulty supplying their domestic demand for distillates and other petroleum products and the planned supply additions will fall short of meeting projected demand. Supply growth is estimated to trail demand growth by 1 MMbbl/d through 2000.<sup>5</sup>

The U.S. petroleum industry has felt the effects of the Asia-Pacific region's demand shortfall during the last 3 years. Between 1983 and 1990, U.S. distillate exports to this region have ranged from 14.5 thousand barrels per day (Mbbbl/d) to 31.5 Mbbbl/d. In contrast, the yearly average exports of distillates in 1991, 1992, and 1993 to date were 60.2 Mbbbl/d, 101.5 Mbbbl/d, and 75.3 Mbbbl/d, respectively. U.S. exports to the Asia-Pacific region (Figure FE2), account for slightly less than 50 percent of the

**Figure FE2. U.S. Exports of Distillate Fuel to Asia-Pacific Region 1983 - 1992**



Source: U.S. Bureau of the Census.

<sup>3</sup>*Oil and Gas Journal*, May 10, 1993.

<sup>4</sup>*Octane Week*, May 31, 1993.

<sup>5</sup>*Octane Week*, May 31, 1993.

region's import increases from 1987 through 1992. Kerojet exports to the Asia-Pacific region have also increased in the last 3 to 4 years.

U.S. exports to the Asia-Pacific region originate in PADDs III and V and thus affect those petroleum product markets. These export levels have contributed to high refinery utilization rates in California and the Gulf Coast. The annual average rates have climbed to 90 percent utilization of operable capacity. During the high distillate export season between August and December 1992, the utilization rate averaged 94 percent in California. These export barrels may also pressure PADD III and V petroleum product markets:

- High distillate demand may compete directly with California diesel and indirectly with East Coast heating oil markets through PADD III exports of distillate fuels.
- Distillate exports may increase the demand for higher distillate yielding crude oils.
- Exports may also come from stocks and affect the inventory cushion available to meet weather-related demand increases. In PADD V, production has been steady while exports have increased from 1990 through 1992. The response has been for stocks to generally decrease over the same time period.

In summary, the Asia-Pacific region is one of the highest petroleum product demand growth areas in the world. This is due to high rates of industrialization and transportation sector growth. Consequently, distillate demand grew 7.6 percent in 1992. Regional refinery capacities have not kept pace with demand growth so that exports have increased and are expected to continue to increase. California and PADD III are primary U.S. exporters to this region and continued high exports may affect U.S. markets in the form of high utilization rates, strong stock draws, higher prices, and further demand for distillate yielding crude oils.

Mid-Atlantic region of PADD I. This transfer allayed any weather-related supply problems.

For the first 6 months of 1993, distillate fuel oil demand was at a slightly higher level compared with comparable periods over the last 3 years. However, increased production and stable imports placed stock levels higher than a year ago.

As of mid-August 1993, distillate fuel oil stocks were about 120 million barrels which is 6 million barrels above last year's level and within the normal range for this time of year. Inventory building should continue to increase over the next several months in anticipation of the heating season.

Distillate fuel oil stock levels at the beginning of the 1993 heating season are projected to be 128 million barrels, the same level as last year. At the end of March 1994, stocks are forecasted to be 98.6 million barrels. This would be a higher end-of-first-quarter level than levels at the close of each heating season since 1986-87 (Figure FE3).

## Price Trends

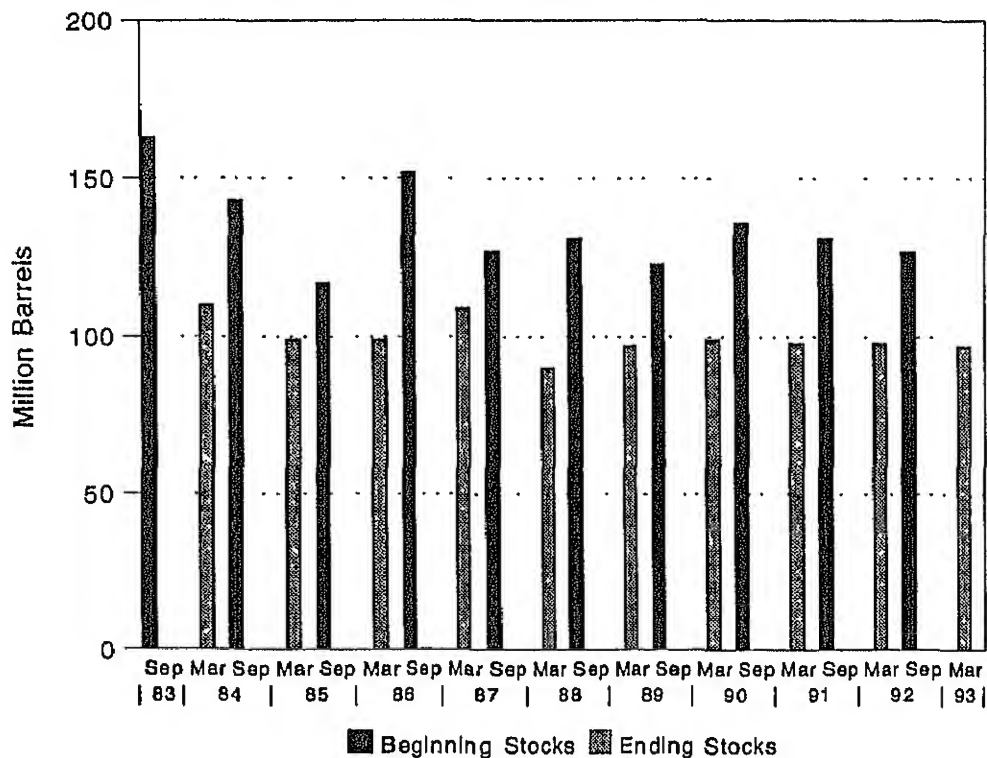
### Factors Affecting Heating Oil Prices

Three main factors drive retail heating oil prices during a winter heating season: crude oil prices, normal seasonal weather

patterns, and unexpected cold weather. These factors affect underlying supply and demand fundamentals and therefore, they act as good indicators of heating oil prices. Crude oil prices generally peak in the fourth quarter of the year. This seasonal price peak is because of increased demand for heating fuels due to colder temperatures. Cold weather that drives heating oil demand normally falls between November and February. The combination of seasonally high crude prices and cold weather normally yields a heating oil price peak in December, January, or February. Unexpected crude price increases also can affect heating oil price levels. These relationships can be seen in Figure FE4, which shows the correspondence between monthly average residential heating oil price, wholesale heating oil price, and the Refiner Acquisition Cost of Imported Crude Oil.

Deviations from this normal pattern move the peak or change the normal pattern of prices over the heating season. The shift from normal patterns is typically due to a sudden strong demand that was not accounted for in stocking patterns or refinery production plans. The 1989-90 and 1991-92 seasons are examples of changes from normal. The New York Harbor daily spot price for No. 2 distillate fuel peaked at 115.2 cents per gallon (cpg) on December 27, 1989. The bi-weekly residential heating oil price peaked on January 2, 1990 at 146.5 cpg in PADD IA and at 137.3 cpg in PADD IB. This was due to 60-year record cold temperatures in the last week of December that turned into unseasonably warm weather in January through

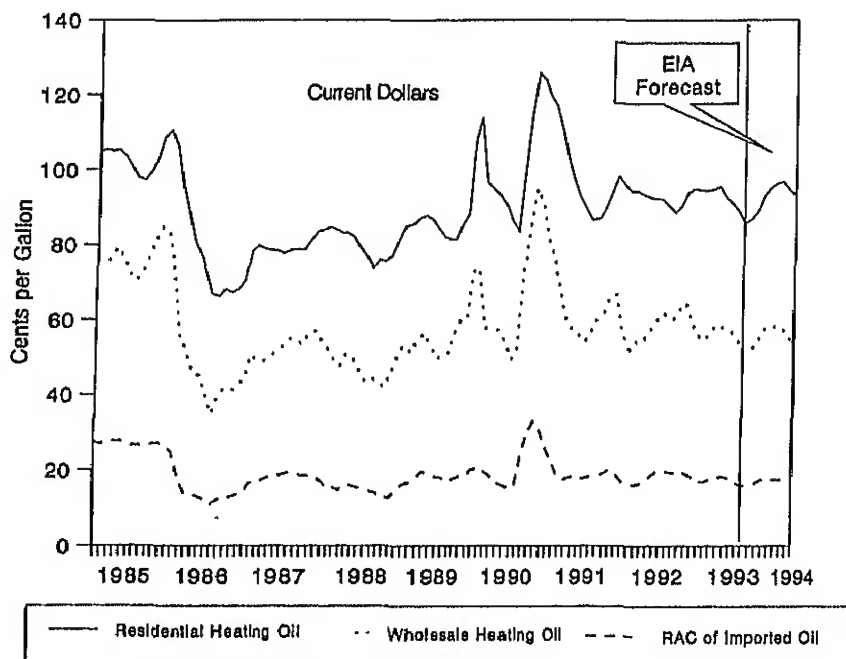
**Figure FE3. U.S. Distillate Fuel Oil Stocks, Heating Season 1983 - 1993**



Note: Beginning stocks are as of September 30; Ending Stocks are as of March 31.

Source: Energy Information Administration, *Petroleum Supply Monthly*, (May 1993), DOE/EIA-0109 (93/05); *Petroleum Supply Annual 1992*, DOE/EIA-0340 (92), and predecessor publications

**Figure FE4. U.S. Residential Heating Oil Prices, U.S. Wholesale Heating Oil Prices, and Refiner Acquisition Cost of Imported Oil**



Sources: Residential, Wholesale and Refiner's Acquisition Cost: EIA, *Petroleum Marketing Monthly*.

March 1990. During the 1991-92 season, residential heating oil prices peaked in November 1991 at 98 cpg, then quickly dropped to average 93.9 cpg the rest of the heating season. The early heating oil price peak was due to an early crude price peak and below normal temperatures in November 1991.

Distillate fuel oil prices followed the upward price of crude oil for the first quarter of 1993, starting above year-ago levels. A drop in April 1993 distillate fuel oil demand caused a price drop for that month. Residential heating oil prices were about 1 cent per gallon higher than the first 4 months of 1992, due to stronger demand this year.

## Forecast for Winter 1993-94

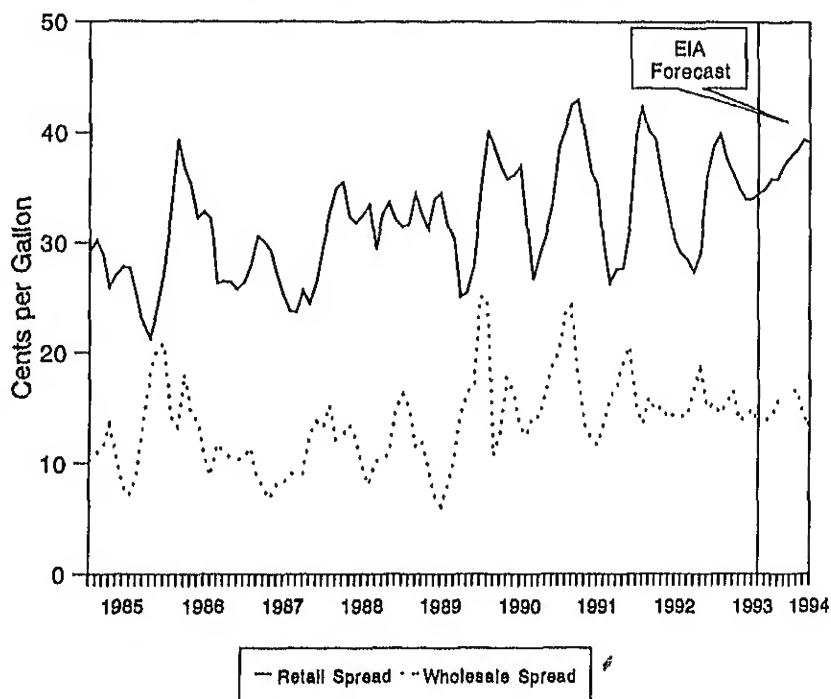
The EIA forecasts a normal price pattern for residential heating oil prices. Residential heating oil prices are expected to average 94.9 cpg this winter, the same average price as winter 1992-93. The forecast shows a price peak of 96.7 cpg in January 1994. This is based upon normal temperature and crude oil price patterns. The EIA assumes normal heating degree day levels and projects an \$16.10 per barrel refiner acquisition cost for crude oil in the third quarter of 1993, \$17.50 per barrel in the fourth quarter of 1993, and \$17.25 per barrel in the first quarter of 1994.

The fourth quarter crude oil price increase and seasonal weather patterns yield this projected retail heating oil price pattern:

- The season starts at 86.9 cpg in August, 1993. This is slightly lower than the August 1992 price of 88.6 cpg and comparable to the August 1991 price of 87.0 cpg.
- Prices rise quickly to the January, 1994 peak of 96.7 cpg. This pattern follows a typical year in which heating oil prices fall to end of summer lows, climb for 3 or 4 months then level off or drop.
- Despite the expected first quarter drop in crude oil prices, heating oil prices fall more slowly than they rose. Prices are maintained due to weather driven demand.
- Prices are projected to hit a low point in June 1994.

Another important price consideration for heating fuel marketers is the price spread between heating fuels and crude oil prices. This provides a simple representation of the profit per gallon or a price mark-up. See Figure FE5 for month average price spreads. Generally, the price spread for all distillate products, both at the wholesale and retail level, increases during the heating season in comparison to the rest of the year because of increased demand. The average heating season retail price spread from 1984 to 1992 was 32.7 cpg. The same average for the non-heating season was 29.7 cpg. The upcoming winter's expected retail price spread is 38.0 cpg or an increase of 2.9 percent over last season. The average wholesale price spread from 1984 to 1992 during the heating season was 14.6 cpg and during the non-heating season was

**Figure FE5. Wholesale (U.S. Wholesale Heating Oil less RAC Imported Crude Oil) and Retail (U.S. Residential Heating Oil less U.S. Wholesale Heating Oil) Price Spreads**



Sources: Residential, Wholesale and Refiner's Acquisition Cost: EIA, *Petroleum Marketing Monthly*. Calculations using Figure FE4 data.

11.2 cpg. Over the last three heating seasons the average wholesale price spread dropped from 20.2 to 15.9 cpg; this winter's projected wholesale spread is 15.5 cpg.

## Low-Sulfur Diesel Fuel and Heating Oil Prices

The Clean Air Act Amendments of 1990 require that all on-highway diesel fuel contain only 0.05-percent sulfur, by weight, as of October 1, 1993. These fuel specification changes, presented in detail in the sidebar "New Low-Sulfur Diesel Fuel Requirements," are expected to cause an increase in the wholesale price spread between heating oil and diesel fuel of about 3 to 4 cpg; therefore, diesel prices are expected to rise 10.0 percent from the previous winter to \$1.22 per gallon due partially to implementation of the new requirements. Other contributors to this increase are federal tax increases and crude price increases. Increased storage and transportation costs to retail marketers are expected to be minimal.

The increased price spread between heating oil and diesel fuel, which derives from a combination of increased production costs and capital costs, is expected to reflect higher production costs of on-highway diesel fuel of 3 to 4 cpg. This is the sum of about 1 cpg increased variable costs and 2 to 3 cpg to recover investment costs. Increased variable costs come from increased reactor temperatures and pressures, increased catalyst breakdown, and the feedstock blending constraints. Capital investments include new desulfurization units, new hydrogen sources, and new tankage for high/low sulfur feedstock separation.

**Table FE2. Distillate Stock Outlook for 1993-94 Winter Months**  
(Million Barrels)

Month	EIA Base Case	Cold Season	Cold Winter
Sep	132.0	132.0	132.0
Oct	133.1	132.0	133.1
Nov	136.5	133.1	136.5
Dec	135.0	128.2	135.0
Jan	127.0	116.2	120.4
Feb	113.0	99.0	101.0
Mar	98.6	82.1	82.2

Source: EIA forecast projections.

<sup>6</sup>Federal Register, August 31, 1993 Volume 55 No. 162, "Regulation of Fuels and Fuel Additives: Fuel Quality Regulations for Highway Diesel Fuel Sold in 1993 and Later Calendar Years.

<sup>7</sup>To evaluate the outlook scenarios, a model was used to forecast the retail price and demand (product supplied) of distillate fuel oil. The model uses historical monthly data series covering the January, 1986 through July, 1993 time period and also uses a number of variables forecasted by the Short Term Energy Outlook mid-world oil price case for its projections. The model consists of a two-equation system estimated by ordinary least squares with correction for autocorrelation and a provision for the calculation of end-of-month stock levels.

<sup>8</sup>The price equation estimates distillate fuel oil prices using crude oil price, stock level behavior, monthly seasonal dummy variables, and a heating degree-day variable as independent variables; an adjusted R-square of .97 was obtained for the regression in the historical time period. The demand equation estimates product supplied as a function of linear trend, seasonal dummy variables, a business cycle variable, and mean heating degree-days; an adjusted R-square of .88 was obtained using historical data.

Downstream storage availability will determine the effects of fuel segregation on retail prices. There may be minimal cost increases downstream to provide tankage for segregated distillate products. These cost increases are expected to pass through to diesel consumers.<sup>6</sup>

## Alternative Scenarios

The mid-price case presented in the latest EIA forecast represents the base case for distillate fuel oil demand, supply and price for the 1993-94 heating season assuming a normal winter. To examine how the petroleum industry may respond to unforeseen events, two scenarios were created which assume colder than normal weather over part or all of the heating season.<sup>7,8</sup>

The results of the analysis for the scenarios demonstrate that there is considerable flexibility in the supply system for the next two quarters, and that retail markets through March 1994 are reasonably well cushioned in the event of unforeseen cold weather. Tables FE2 and FE3 summarize the values in the two scenarios and show the resulting impact on distillate stocks and retail prices forecasted in the mid-price case. The monthly estimates for retail prices and stocks for all projections are depicted in Figures FE6 and FE7.

### Scenario 1: Colder Heating Season (October 1993 through March 1994)

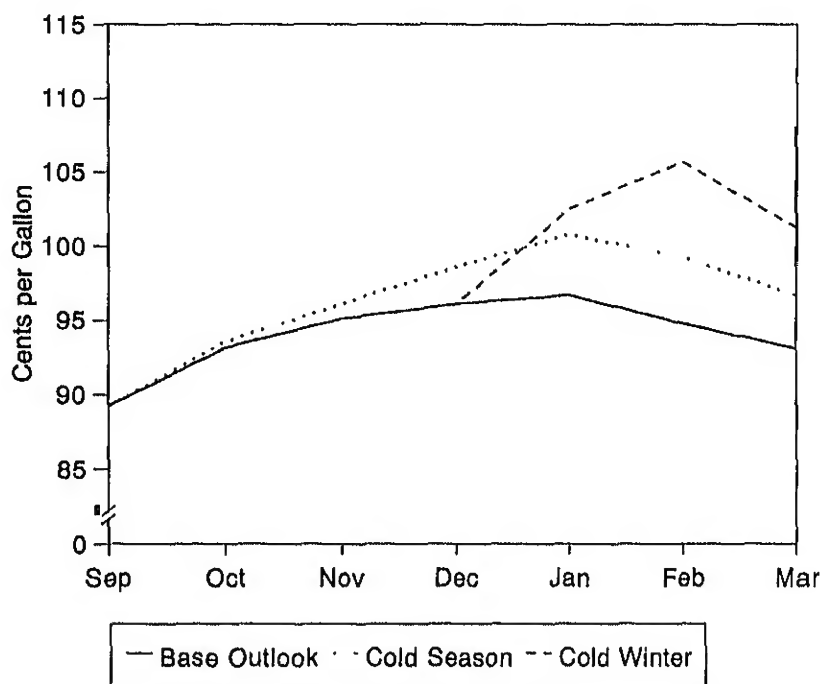
This scenario differs from the forecasted mid-price case by examining the effects of colder than normal temperatures during the fall and winter. This scenario was developed by

**Table FE3. Distillate Price Outlook for 1993-94 Winter Months**  
(Cents)

Month	EIA Base Case	Cold Season	Cold Winter
Sep	89.2	89.2	89.2
Oct	93.1	93.5	93.1
Nov	95.1	96.1	95.1
Dec	96.1	98.6	96.1
Jan	96.7	100.8	102.5
Feb	94.8	99.3	105.7
Mar	93.1	96.7	101.3

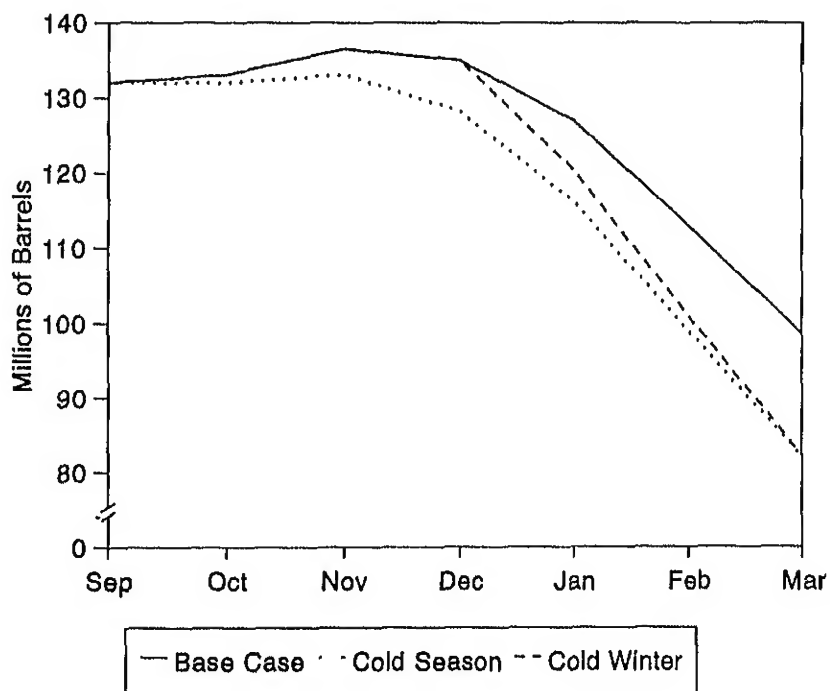
Source: EIA forecast projections.

**Figure FE6. Comparison of Alternative Weather Scenarios on Distillate Price Outlook**



Source: Energy Information Administration, estimates derived from regression analysis and EIA estimates.

**Figure FE7. Comparison of Alternative Weather Scenarios on Distillate Stock Outlook**



Source: Energy Information Administration, estimates derived from regression analysis and EIA estimates.



# New Low-Sulfur Diesel Fuel Requirements

This summer, U.S. refiners faced the latest in a series of challenges to reduce air pollution. The Clean Air Act Amendments of 1990 require a maximum sulfur content of 0.05 percent by weight for all on-highway diesel fuel sold after October 1, 1993 - about 80 percent less sulfur than diesel fuel now available. Better vehicle fuel economy and maintenance cost savings may result, including extension of average engine life.

The new standards apply nationwide and are estimated to affect about 46 percent of total U.S. distillate fuel oil demand. Distributors and consumers have voiced concerns because some key refiners may not be able to produce the low sulfur fuel in sufficient quantities by the October 1 deadline. However, Energy Information Administration (EIA) statistics indicate that on-highway diesel fuel stocks have been steadily increasing throughout the country and the outlook for meeting the expected demand is good. About 44 percent of the current output of distillate fuel oil meets the new standard. Over the 7 day period August 28 through September 3, 1993, low-sulfur diesel stocks rose approximately 6 percent to reach 47.6 million barrels, while high-sulfur inventories fell about 1 percent to 79.7 million barrels. These stock trends are developing as expected as refiners prepare for the new, lower sulfur standards.

Producers are expected to make adjustments in their process technology to meet these standards. Changes may include:

- increasing reactor severity in existing and new desulfurization units,
- limiting low-sulfur distillate blending operations to low-sulfur streams already existing in the refinery,
- adding desulfurization capacity, and
- segregating low-sulfur and high-sulfur distillate streams.

The California Air Resources Board (CARB) will impose limits on the aromatic hydrocarbon content for their diesel fuel pool, in addition to low sulfur requirements. CARB regulations restrict aromatic hydrocarbon levels to 10 percent by volume. This hydrocarbon level translates to a minimum cetane number of 55. All diesel fuels sold in California must meet these sulfur and aromatics specifications except for railroad and vessel bunkering and uses; this includes on-highway, off-highway, and farm diesel fuel uses.

CARB estimates the demand will be 160 thousand barrels per day (Mbbbl/d). The EIA confirms this level of demand for farm, on-highway, and off-highway diesel fuels. Total sales for these uses in California held 68.9 percent of the market share of distillate fuel sales in the state or 152 Mbbbl/d<sup>9</sup>. The next largest market share for these three uses was 67.9 percent in all of PADD II. (Figure FE8)

Eight refiners have announced they will produce about 160 Mbbbl/d of the new diesel specification product. Projected production volumes are: Chevron (52 Mbbbl/d), Unocal (22 Mbbbl/d), Kern Oil (? Mbbbl/d), Texaco (20 Mbbbl/d), ARCO (15-20 Mbbbl/d), Tesco (15 Mbbbl/d), Ultramar (15 Mbbbl/d), and Exxon (2-3 Mbbbl/d). (Mobil and Shell have stated that they will not enter this market and therefore must export their diesel fuel production.) In addition to product which meets the prescribed specifications, projected new diesel volumes include two additional types of diesel fuel:

## Alternative Formula Fuels

- The limiting factor in the production of California diesel fuel is the low aromatics content. From the outset, refiners said they would not be able to produce the low aromatics specification fuels. Consequently, CARB allows certified alternative formulations of diesel fuel. These alternative fuels need not meet the low sulfur/low aromatics specifications, but, must meet the same tailpipe emissions that are produced by the low sulfur/low aromatic diesel fuels.

## Variance Fuels

- The CARB developed a regulation variance procedure for those refiners who wished to produce the new diesel fuel but could not meet the deadline due to "extraordinary circumstances." Upon obtaining a company specific variance, a refiner

<sup>9</sup> Fuel Oil and Kerosene Sales 1991, November 1992.

<sup>10</sup> Bloomberg's Oil Buyer's Guide, August 23, 1993.



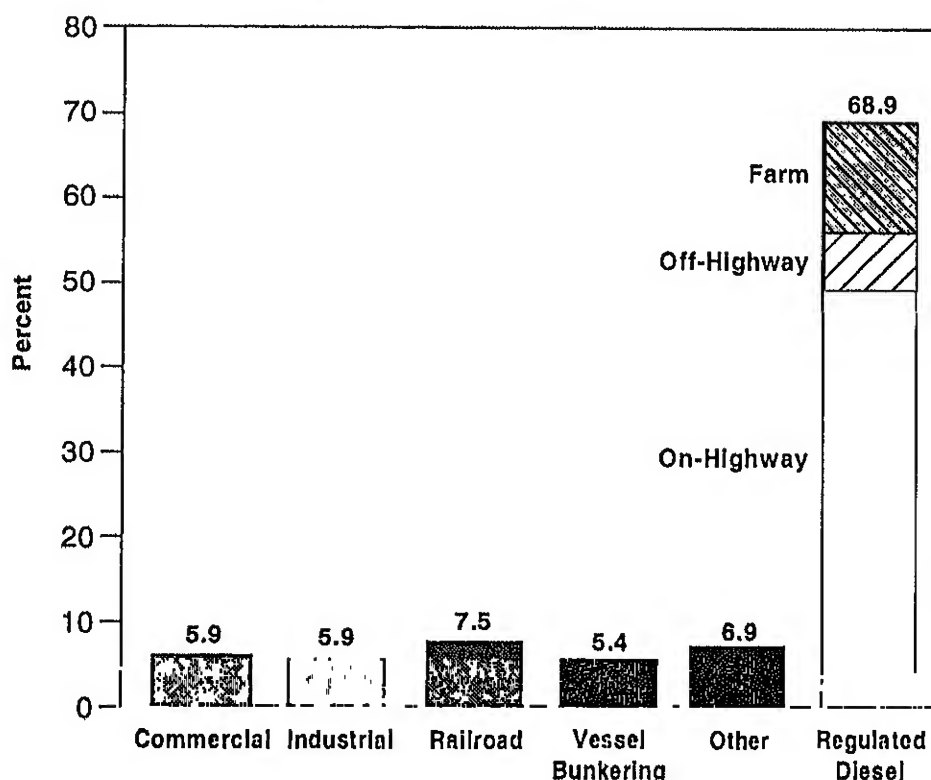
may produce and sell a specific amount of below specification fuel for a specified period of time. The CARB states that most variances will be 6 months to 1 year long. The variance contracts require the refiner to produce the low sulfur, low aromatic diesel or its equivalent, after the period of allowed variance. Variances will cost the refiner 6 cpg the first year of the regulation, 8 cpg the second, and 12 cpg the third. Chevron, Unocal, and Ultramar have been named variances for unknown percentages of their low-sulfur diesel fuel.

Even with sufficient supplies of the new diesel fuel, high demand for distillate fuels in the Asia-Pacific region could have several effects on California petroleum markets:

- High distillate production may result in extra gasoline production. This could push down gasoline prices.
- PADD V crude demand could shift toward higher distillate yielding crude oils. This might push up crude prices and cut refiner margins.
- Distillate may be pulled out of the diesel market in California, if the Asia-Pacific region prices are conducive. This may place upward price pressure on diesel prices that are expected to be at least 3 to 4 cpg higher than historical levels.
- Inventory drawdowns may provide the export barrels. Historically, inventory drawdowns have tended to precede spot price increases.

Sufficient production of the new, low-sulfur diesel fuels is expected. Even the stricter California requirements should be met with the use of alternative formula fuels and variance fuels. A possible impact on this diesel fuel outlook is the recent high demand for distillates in the Asia-Pacific region.

**Figure FE8. End Use of Distillates In California**



Note: "Other" category includes Electric Utility, Residential, Oil Company, and Military end-uses.

Source: Form EIA-821, Annual Fuel Consumption and Key Product Sales Reports

increasing the number of heating degree days for each month in the heating season by 10 percent. Because of the relatively few heating degree days occurring in the first month, it is only in November where stock and price projections begin to differ by any great extent from the base-line case. The scenario estimate would increase the demand for heating fuel by an average of 91 thousand barrels per day over the six month heating season, which results in the retail price rising to peak 4.1 cpg above that in the base case and with end-of-season stocks being 17 million barrels below the base case.

## **Scenario 2: Colder Winter Season (January 1994 through March 1994)**

This scenario differs from the previous scenario by concentrating the cold weather in the months of January through March; the scenario assumes that the 10 percent increase in heating degree days falls into 3 months rather than 6. This projection estimates that the demand for heating oil would increase by about 5 percent during these months over

that in the base case, prices would peak 9 cpg higher during the middle of the cold snap, and that end-of-season stock levels would be about 16 million barrels below those in the base case.

## **Conclusion**

Distillate fuel oil supplies are seen to be sufficient to meet a 4-percent increase in winter demand over that of 1992-93. High utilization rates for all of 1993 are expected to continue into the fourth quarter of this year as well as into the beginning of 1994. Augmented by stable imports and high refinery runs, stock levels are expected to end the heating season higher than at any time since the heating season of 1986-87.

On average over the upcoming winter, residential heating oil and diesel prices are seen to be 94.9 and \$1.22 per gallon, respectively. The heating oil price is the same as the previous winter and the diesel price shows a 10-percent increase over winter 1992-93.

# Propane Outlook for Winter 1993-1994

by David Hinton

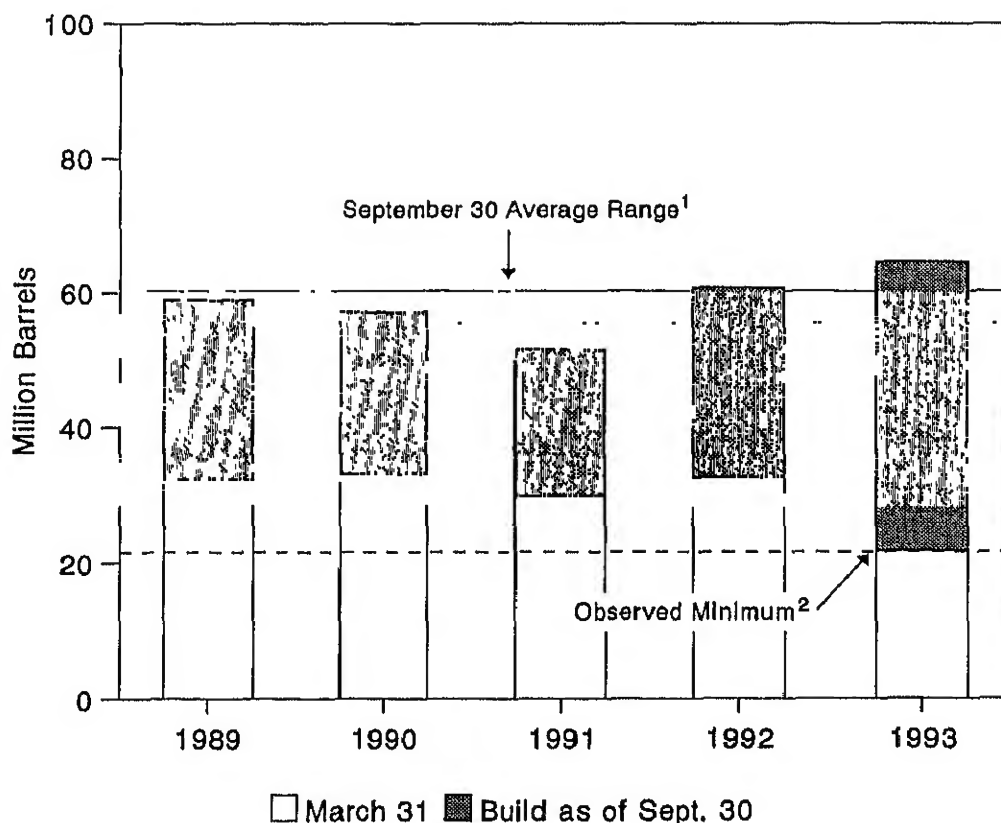
## Summary

The outlook for propane supplies in the United States during the 1993-1994 winter heating season (defined as October through March) is optimistic and continues to improve. Despite the extremely low inventory level reached at the end of last winter, domestic propane supplies have recovered well, and primary stock levels reached over 64 million barrels by the end of September 1993 (Figure FE9). The combination of factors causing the severe inventory depletion in the fall of 1992 is unlikely to be repeated, and typical seasonal demand would only lead to season-ending stocks of about 33 million barrels,

about 11 million barrels higher than in spring 1993. Given anticipated supply and demand conditions, average residential prices would be expected to rise about 4 cents per gallon through January, and decline by the end of March.

Even under certain adverse scenarios, U.S. propane supplies appear adequate to serve market needs during the coming winter. Weather is the most likely source of concern, because it affects peak winter demand. Under two different hypothetical severe weather cases (moderately colder all season and severely colder during the peak demand months), domestic inventories were seen to fall to near last season's

Figure FE9. Propane Stocks March 31 and September 30, 1989 - 1993



<sup>1</sup>Average level and width of average range based on 3 years of monthly data: January 1990 - December 1992.

<sup>2</sup>The Observed Minimum for propane stocks is based on final monthly data for the last 36 month period and was 21.8 million barrels, occurring in March 1993.

Sources: Data for 1989 - 1992, Energy Information Administration (EIA), *Petroleum Supply Annual 1989-1992*, DOE/EIA-0340(89-92), Volume 1, Table 2; data for January-July 1993, EIA, *Petroleum Supply Monthly 1993*, DOE/EIA-0109(93/01-09), Table 2; and data for August-September 1993, EIA, Form EIA-807 "Propane Telephone Survey."

ending level, with peak prices at most 4 cents above those in the base case. Potential supply problems are more difficult to model, due to the nearly unlimited possibilities, but the U.S. propane supply system has proven to possess sufficient capacity and diversity to cope with all but the most widespread breakdowns.

One area of potential concern following last winter was inventory levels in Petroleum Administration for Defense (PAD) District II, the Midwestern United States. PAD District II was the hardest hit by last season's supply drawdown, primarily caused by high demand for propane for crop drying. Stocks in the area were rapidly drawn down during fall 1992, reaching record low levels during the late winter, and were slow to recover in the off-season. However, high crop-drying demand is not expected this fall, partly because of extensive flood damage during the summer, and PAD District II stocks reached acceptable levels by the beginning of the peak heating season demand.

This article reviews the major components of propane supply and demand in the United States, and their status entering the 1993-1994 heating season. Other influences on prices are also discussed. Finally, a base case and two adverse scenarios are described for the heating season outlook, focusing on inventory levels and residential prices.

## Supply

The three principal sources of propane supply during the winter heating season are domestic production at natural gas processing facilities and at petroleum refineries, withdrawals from inventory, and net imports (imports minus exports) (Table FE4). Since gas plants and refineries, storage facilities, and import terminals are widely dispersed throughout the United States, propane markets rely on interregional movements of propane, primarily by pipeline, railcar, tanker, and barge.

<sup>1</sup>Gas Processors Report, June 14, 1993, Houston, Texas, page 2.

<sup>2</sup>Pace Petrochemical Service, June 1993, page 118.

Domestic production has traditionally accounted for the largest share of U.S. domestic propane supply, followed by inventory withdrawals and net imports. During the 1992-1993 heating season (October through March), domestic production accounted for 78 percent of the U.S. supply of propane. During this same period, inventory drawdowns accounted for 17 percent of U.S. propane supply, while net imports provided the remaining 5 percent.

For the first 7 months of 1993, the supply of propane from domestic production remained relatively unchanged compared with the same period during 1992. Breaking with past trends, the share of propane from natural gas plants rose slightly while the supply of propane from refiners fell during this same period. The increase in refinery output of propane the past few years was the result of higher crude oil runs at refineries in association with the increase in production of some products such as motor gasoline. Since propane is essentially a byproduct of other refinery operations, higher refinery production of products such as motor gasoline promotes higher production of propane. The modest increase in propane supply from gas processing plants during the first 7 months of 1993, compared with the same period last year, was the result of several factors. First, the 1993 start-up of two new pipelines in PAD District III greatly facilitated the movement of propane to the Gulf Coast region. With the availability of expanded pipeline capacity in the Gulf Coast region, gas plant production was no longer constrained as in prior years.<sup>1</sup> Secondly, gas plants continued to recover large amounts of propane due to high yields and high natural gas throughput,<sup>2</sup> the latter in response to rising gas prices.

Inventory withdrawals of propane are the second largest source of supply during the heating season. Historically, U.S. propane inventories are built up during the spring and summer months when demand is low, and propane is withdrawn from inventories during the fall and winter months when demand is

**Table FE4. Average Propane Supply, Demand, and Price**  
(Million Barrels per Day Except Where Noted)

Category	Winter 1990-1991	Winter 1991-1992	Winter 1992-1993
Production	0.91	0.94	0.96
Net Imports	0.05	0.06	0.06
Ending Stocks, September and March (Million Barrels)	57.2-29.8	51.6-32.6	60.8-21.8
Product Supplied	1.10	1.10	1.24
Residential Propane Prices (Cents per Gallon)	99.4	89.1	91.8

Note: Averages are calculated using monthly data for the winter heating season months October through March.

Sources: Energy Information Administration, *Petroleum Supply Annual 1992*, DOE/EIA-0340 (92), Volume 2, and predecessor reports; and *Winter Fuels Report*, Week Ending: April 2, 1993, DOE/EIA-0538 (92/93-25), Table 8.

much stronger. Inventory withdrawals during the 1992-1993 heating season supplied a near record 17 percent of total propane supply, the largest share of propane supply since the 1986-1987 heating season. Over the past 5 years, inventory withdrawals have accounted for shares ranging between 9 percent and about 15 percent. Consequently, by the end of the heating season in March 1993, U.S. inventories of propane were drawn down to a 23-year low of 21.8 million barrels.

The smallest component of U.S. supply of propane is net imports. Net imports provide the cushion when consumption rates exceed the rates of available supplies of propane from current domestic production and inventories. During the 1992-1993 heating season, net imports of propane accounted for nearly 5 percent of propane supply. Over the past 5 years, net imports have accounted for shares of total propane supply ranging from 5 percent to 10 percent. Reversing a downward trend of the last 2 years, net imports of propane increased to 58 thousand barrels per day during the first 7 months of 1993, compared with about 42 thousand barrels per day during the same period 1992.

Although Canada traditionally supplies the largest volume of propane to U.S. inventories, Canada's volume of net imports for the first 7 months of 1993 is down about 8 percent from the same period last year. Like the United States, Canada's supply of propane reached record lows last winter; subsequently Canadian stockholders have been busy replenishing local stocks before the onset of winter. As of September 1, 1993, Canadian inventories stood at 5.6 million barrels, nearly 4 percent below the level of specification<sup>3</sup> grade propane in inventory this time last year. However, Canadian propane remains an important source for incremental supplies during both stockbuilding periods and for periods of peak demand during the winter heating season.

The remaining source of non-Canadian imports is mostly waterborne supplies from the Persian Gulf, North Africa, and South America. Waterborne net imports of propane to the United States for the first 7 months of 1993 were nearly triple the volume compared with the same period last year. Algeria and Saudi Arabia accounted for most of the increase in waterborne net imports between the first 7 months of 1993 and the same period during 1992. Although waterborne net imports have been relatively low the past few years, U.S. propane prices during 1993 have been high enough to attract international propane.

## Demand

Propane demand in the United States derives from several different sectors, primarily residential/commercial (35

percent), petrochemical (43 percent), and agricultural (percent). The remainder of propane demand is made up industrial, gas utility, and other use sectors.<sup>4</sup> Similar to other energy markets, propane demand is primarily affected by prices, macroeconomic growth, and weather. Moreover, variations exist between both regional and seasonal market sector demand for propane.

The residential and commercial sectors primarily consume propane as a heating and cooking fuel. Because of the predominance of space heating in residential usage, demand in this sector is extremely weather-dependent. Moreover, the concentration of heating demand in the residential sector varies dramatically from region to region. For example, in the Northeast only 17 percent of all residential propane consumers use propane as their main heating fuel. In the South, 63 percent of all residential consumers of propane use it to heat their homes during the winter. In contrast, more than two-thirds of all propane consumers in the Midwest use propane as their main heating fuel, the highest concentration of any region.<sup>5</sup>

Petrochemical industry use of propane comprises the largest sector demand for propane and is mainly concentrated on the Gulf Coast (PAD District III). Propane is used in petrochemical production mainly as a feedstock for ethylene crackers.<sup>6</sup> Propane competes with other potential feedstocks according to the relative price and yield of both feedstocks and products. Therefore, the petrochemical industry will switch a portion of their feedstock requirements, as well as purchase to alternative, less costly feedstocks, during the winter months when residential heating demand is strongest.

Agricultural demand for propane is primarily concentrated in the Midwest (PAD District II) and includes diverse uses such as crop drying, weed control, poultry breeding, and heating of farm buildings. Crop drying, the largest component of agricultural demand, is not only seasonal, but can vary greatly from year to year depending on crop size and moisture content. This was most evident last fall when heavy rains caused one of the largest and wettest corn harvests in recent years. Additionally, the corn harvest began later than usual, causing the period of peak agricultural demand to overlap the beginning of the residential heating season.

## Prices

Propane prices in the United States, like those for all petroleum products, are influenced by a complex set of domestic and international factors. Chief among these are the prices for crude oil and natural gas, competing heating fuels, and alternative petrochemical feedstocks, as well as the domestic and international propane supply/demand balance. Despite the

<sup>3</sup>The National Energy Board of Canada classifies propane inventories as either "specification" grade propane (pure propane) or "mix" grade (propane mixed with ethane or butane).

<sup>4</sup>American Petroleum Institute, *Sales of Natural Gas Liquids and Liquefied Refinery Gases, September 1992*, Table 4, pp. 6 and 7.

<sup>5</sup>Energy Information Administration, *Housing Characteristics 1990*, DOE/EIA-0314(90), Tables 19, pp. 60-61.

<sup>6</sup>Ethylene crackers are the primary petrochemical processing units that convert various feedstocks, such as propane, into the intermediate product ethylene.

range of influences, U.S. propane prices have typically been more stable than those for its raw materials and competing products.

The most widely-watched prices for propane in the United States are those for spot market transactions at the major distribution hubs of Mont Belvieu, Texas, and Conway, Kansas. Mont Belvieu is the center for supplies to the Gulf Coast petrochemical industry and the East Coast via pipeline, while Conway provides pipeline shipments to the Midwest and railcar loadings for other areas. Along with the individual price levels at these two points, the differential between them is significant, providing an indication of the supply balance between the Gulf Coast and Mid-Continent areas. In recent years, Mont Belvieu prices have typically averaged several cents higher than those at Conway. However, since PAD District II inventories (including Conway) were severely reduced last winter, Conway prices have remained near or above those at Mont Belvieu, providing a slight incentive for shipments to the Mid-Continent region.

Prices for crude oil and natural gas, the raw materials from which propane is derived, generally moved in opposite directions over the summer of 1993, leading to uncertain cost influences. Crude oil prices slipped over \$3 per barrel from March through September, due to continued oversupply and rekindled uncertainty about Iraq's possible return to world markets. Natural gas prices, by contrast, have gradually risen since early June, primarily due to low pre-season storage levels.

Other significant indicators for U.S. propane markets include prices for propane on international markets and for alternative domestic petrochemical feedstocks. As with other products, a sufficient price differential between the United States and other world markets will have a significant effect on import/export flows. For most of 1993, propane prices in the United States have been several cents above those in European markets, sufficient to maintain average, but not exceptional, U.S. propane imports. The price comparison between propane and other petrochemical feedstocks is more complicated, in that each potential feedstock has not only a different price, but a different ethylene yield and mix of co-products. With crude oil prices currently depressed more than those for propane, gasoil (distillate) becomes a relative bargain compared to propane for petrochemical feedstock purposes.

## Outlook Scenarios

Given the recent history and current status of the major supply, demand, and price factors for propane in the United States, the outlook for the winter 1993-1994 heating season appears to be

optimistic and improving. The spring and summer stock build in 1993 overcame, for the most part, the inventory depletion of the previous winter, and high domestic production levels allowed this recovery to be completed in time for the start of the heating season. Average prices are moderate, similar to recent years' pre-season levels, with some differences in regional differentials.

Assuming average weather and crop drying, and no unusual and unforeseen events or conditions, propane supplies should be adequate throughout the entire season. Primary stocks at the national level (Figure FE10) began October at over 64 million barrels, and are projected to experience a gradual drawdown over the season to about 33 million barrels, both above the average of recent years.<sup>7,8</sup> The ending level would be about 11 million barrels above that reached in the spring of 1993. Residential prices (Figure FE11) would be expected to increase moderately, beginning at an average of 88 cents per gallon at the end of September, rising to 92 cents in January, and falling back to about 87 cents in March. This represents a slightly higher starting point than last winter's, but lower mid- and late-season price levels, based on less drastic inventory depletion than that seen in 1992-1993.

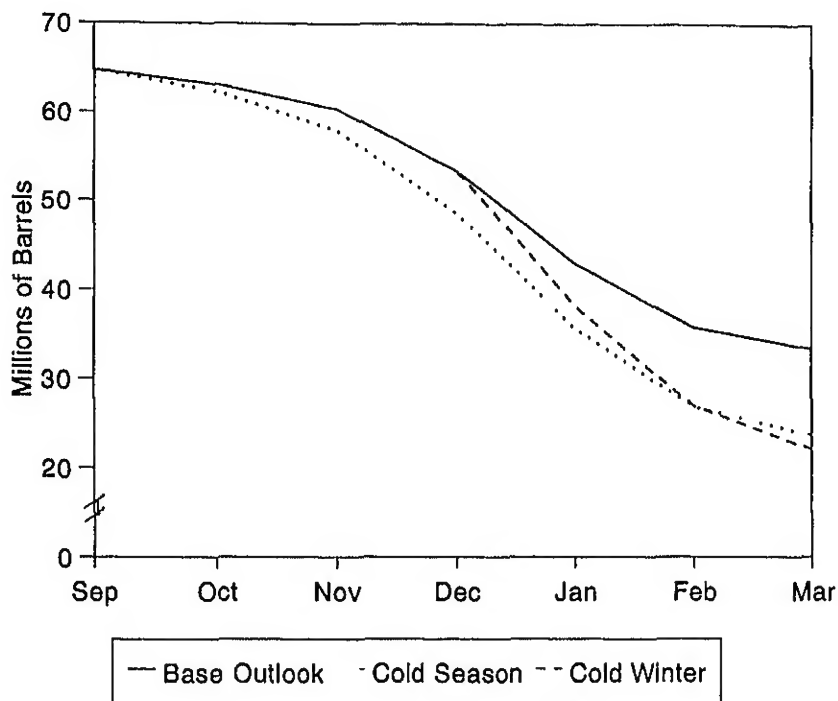
In order to assess the capacity of propane markets to respond to different conditions, various alternate hypothetical scenarios were considered. In evaluating possible alternate scenarios for the heating season, the critical variable is assumed to be weather, as measured by heating degree-days. While other demand or supply factors can have a significant impact, they are more difficult to assess, and generally less pervasive, than extreme and widespread cold weather. Under a scenario of moderately colder weather throughout the Nation and the heating season (10 percent more heating degree-days), the impacts on U.S. propane supplies and prices would be significant, but not critical. Inventory levels would drop at a steadily more rapid pace throughout the season, with primary stocks ending at approximately 24 million barrels, slightly above last season. Residential prices would peak about 3 cents higher in February, at 95 cents, and would only fall back to about 91 cents in March.

However, if the colder weather is concentrated in the peak demand months, rather than spread over the season, market reaction is more dramatic. For example, another potential scenario considers the impact of similarly greater heating demand over the season, but concentrated into the coldest winter months. A 10-percent overall increase in heating degree-days for the season, focused in the months of January through March (amounting to a 17-percent increase for those months), would result in a more drastic stock draw during that

<sup>7</sup>To evaluate the outlook scenarios, a model was used to forecast the retail price and demand (product supplied) of propane. The model uses historical monthly data series covering the January 1989 through July 1993 time period, and also uses EIA forecasts of imported crude oil price for its projections. The model consists of a two-equation system estimated by ordinary least squares with correction for autocorrelation and a provision for the calculation of end-of-month stock levels.

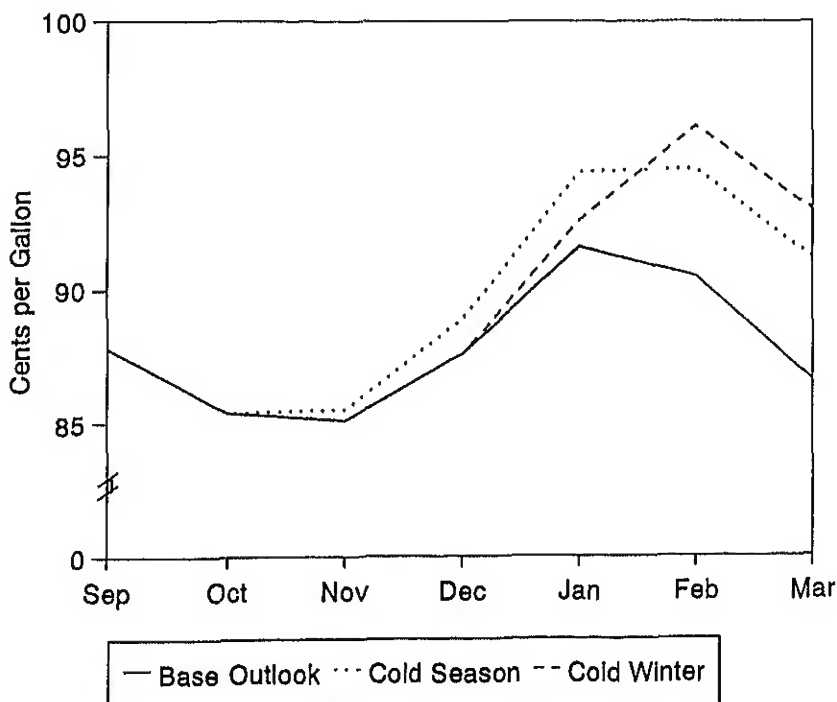
<sup>8</sup>The price equation estimates the average U.S. residential price of propane using crude oil price, stock level behavior, and a heating degree-day variable as independent variables; an adjusted R-square of .89 was obtained for the regression in the historical time period. The demand equation estimates product supplied as a function of seasonal dummy variables and mean heating degree-days; an adjusted R-square of .94 was obtained using historical data.

**Figure FE10. Comparison of Alternative Weather Scenarios on Propane Stock Outlook**



Sources: September 1993; Energy Information Administration, Form EIA-807, "Propane Telephone Survey", October - March; Estimates derived from regression model.

**Figure FE11. Comparison of Alternative Weather Scenarios on Propane Price Outlook**



Sources: September 1993; Energy Information Administration, Form EIA-807, "Propane Telephone Survey", October - March; Estimates derived from regression model.



# New Low-Sulfur Diesel Fuel Requirements

This summer, U.S. refiners faced the latest in a series of challenges to reduce air pollution. The Clean Air Act Amendments of 1990 require a maximum sulfur content of 0.05 percent by weight for all on-highway diesel fuel sold after October 1, 1993 - about 80 percent less sulfur than diesel fuel now available. Better vehicle fuel economy and maintenance cost savings may result, including extension of average engine life.

The new standards apply nationwide and are estimated to affect about 46 percent of total U.S. distillate fuel oil demand. Distributors and consumers have voiced concerns because some key refiners may not be able to produce the low sulfur fuel in sufficient quantities by the October 1 deadline. However, Energy Information Administration (EIA) statistics indicate that on-highway diesel fuel stocks have been steadily increasing throughout the country and the outlook for meeting the expected demand is good. About 44 percent of the current output of distillate fuel oil meets the new standard. Over the 7 day period August 28 through September 3, 1993, low-sulfur diesel stocks rose approximately 9 percent to reach 47.6 million barrels, while high-sulfur inventories fell about 1 percent to 79.7 million barrels. These stock trends are developing as expected as refiners prepare for the new, lower sulfur standards.

Producers are expected to make alterations in their process technology to meet these standards. Changes may include:

- increasing reactor severity in existing and new desulfurization units,
- limiting low-sulfur distillate blending operations to low-sulfur streams already existing in the refinery,
- adding desulfurization capacity, and
- segregating low-sulfur and high-sulfur distillate streams.

The California Air Resources Board (CARB) will impose limits on the aromatic hydrocarbon content for their diesel fuel pool, in addition to low sulfur requirements. CARB regulations restrict aromatic hydrocarbon levels to 10 percent by volume. This hydrocarbon level translates to a minimum cetane number of 55. All diesel fuels sold in California must meet these sulfur and aromatics specifications except for railroad and vessel bunkering end uses; this includes on-highway, off-highway, and farm diesel fuel uses.

CARB estimates the demand will be 160 thousand barrels per day (Mbbbl/d). The EIA confirms this level of demand for farm, on-highway, and off-highway diesel fuels. Total sales for these uses in California held 68.9 percent of the market share of distillate fuel sales in the state or 152 Mbbbl/d<sup>9</sup>. The next largest market share for these three uses was 67.9 percent in all of PADD II. (Figure FE8)

Eight refiners have announced they will produce about 160 Mbbbl/d of the new diesel specification product. Projected production volumes are: Chevron (52 Mbbbl/d), Unocal (22 Mbbbl/d), Kern Oil (20 Mbbbl/d), Texaco (20 Mbbbl/d), ARCO (15-20 Mbbbl/d), Tosco (15 Mbbbl/d), Ultramar (15 Mbbbl/d), and Exxon (2-3 Mbbbl/d).<sup>10</sup> (Mobil and Shell have stated that they will not enter this market and hence must export their diesel fuel production.) In addition to product which meets the prescribed specifications, projected new diesel volumes include two additional types of diesel fuel:

## Alternative Formula Fuels

- The limiting factor in the production of California diesel fuel is the low aromatics content. From the outset, refiners said they would not be able to produce the low aromatics specification fuels. Consequently, CARB allows certified alternative formulations of diesel fuel. These alternative fuels need not meet the low sulfur/low aromatics specifications but must meet the same tailpipe emissions that are produced by the low sulfur/low aromatic diesel fuels.

## Variance Fuels

- The CARB developed a regulation variance procedure for those refiners who wished to produce the new diesel fuel but could not meet the deadline due to "extraordinary circumstances." Upon obtaining a company specific variance, a refiner

<sup>9</sup> Fuel Oil and Kerosene Sales '92, November 1992

<sup>10</sup> Blending's Oil Buyer's Guide, August 23, 1993.



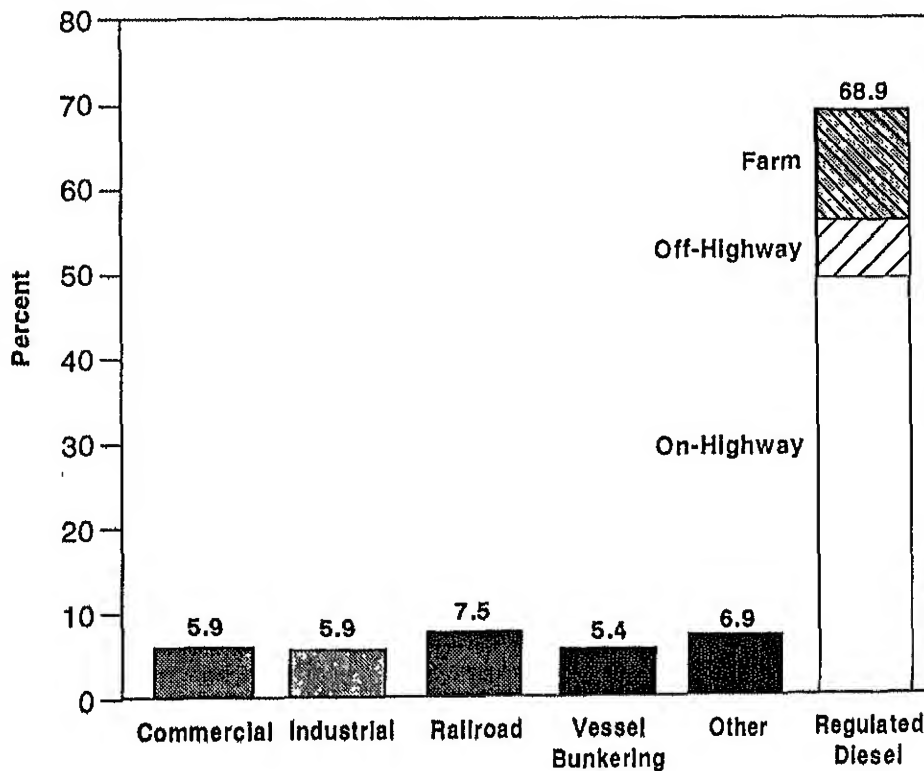
may produce and sell a specific amount of below specification fuel for a specified period of time. The CARB states that most variances will be 6 months to 1 year long. The variance contracts require the refiner to produce the low sulfur/low aromatic diesel or its equivalent after the period of allowed variance. Variances will cost the refiner 6 cpg the first year of the regulation, 8 cpg the second, and 12 cpg the third. Chevron, Unocal, and Ultramar have been granted variances for unknown percentages of their low sulfur diesel fuel.

Even with sufficient supplies of the new diesel fuel, high demand for distillate fuels in the Asia-Pacific region could have several effects on California petroleum markets.

- High distillate production may result in extra gasoline production. This could push down gasoline prices.
- PADD V crude demand could shift toward higher distillate yielding crude oils. This might push up crude prices and cut refiner margins.
- Distillate may be pulled out of the diesel market in California, if the Asia-Pacific region prices are conducive. This may place upward price pressure on diesel prices that are expected to be at least 3 to 4 cpg higher than historical levels.
- Inventory drawdowns may provide the export barrels. Historically, inventory drawdowns have tended to precede spot price increases.

Sufficient production of the new, low-sulfur diesel fuels is expected. Even the stricter California requirements should be met with the use of alternative formula fuels and variance fuels. A possible impact on this diesel fuel outlook is the recent high demand for distillates in the Asia-Pacific region.

**Figure FE8. End Use of Distillates in California**



Note: "Other" category includes Electric Utility, Residential Oil Company, and Military end-uses.  
 Source: Form EIA-821, Annual Fuel Oil and Kerosene Sales Reports

increasing the number of heating degree days for each month in the heating season by 10 percent. Because of the relatively few heating degree days occurring in the first month, it is only in November where stock and price projections begin to differ by any great extent from the base-line case. The scenario estimate would increase the demand for heating fuel by an average of 91 thousand barrels per day over the six month heating season, which results in the retail price rising to peak 4.1 cpg above that in the base case and with end-of-season stocks being 17 million barrels below the base case.

## **Scenario 2: Colder Winter Season (January 1994 through March 1994)**

This scenario differs from the previous scenario by concentrating the cold weather in the months of January through March; the scenario assumes that the 10 percent increase in heating degree days falls into 3 months rather than 6. This projection estimates that the demand for heating oil would increase by about 5 percent during these months over

that in the base case, prices would peak 9 cpg higher during the middle of the cold snap, and that end-of-season stock levels would be about 16 million barrels below those in the base case.

## **Conclusion**

Distillate fuel oil supplies are seen to be sufficient to meet a 4-percent increase in winter demand over that of 1992-93. High utilization rates for all of 1993 are expected to continue into the fourth quarter of this year as well as into the beginning of 1994. Augmented by stable imports and high refinery runs, stock levels are expected to end the heating season higher than at any time since the heating season of 1986-87.

On average over the upcoming winter, residential heating oil and diesel prices are seen to be 94.9 and \$1.22 per gallon, respectively. The heating oil price is the same as the previous winter and the diesel price shows a 10-percent increase over winter 1992-93.

# Propane Outlook for Winter 1993-1994

by David Hinton

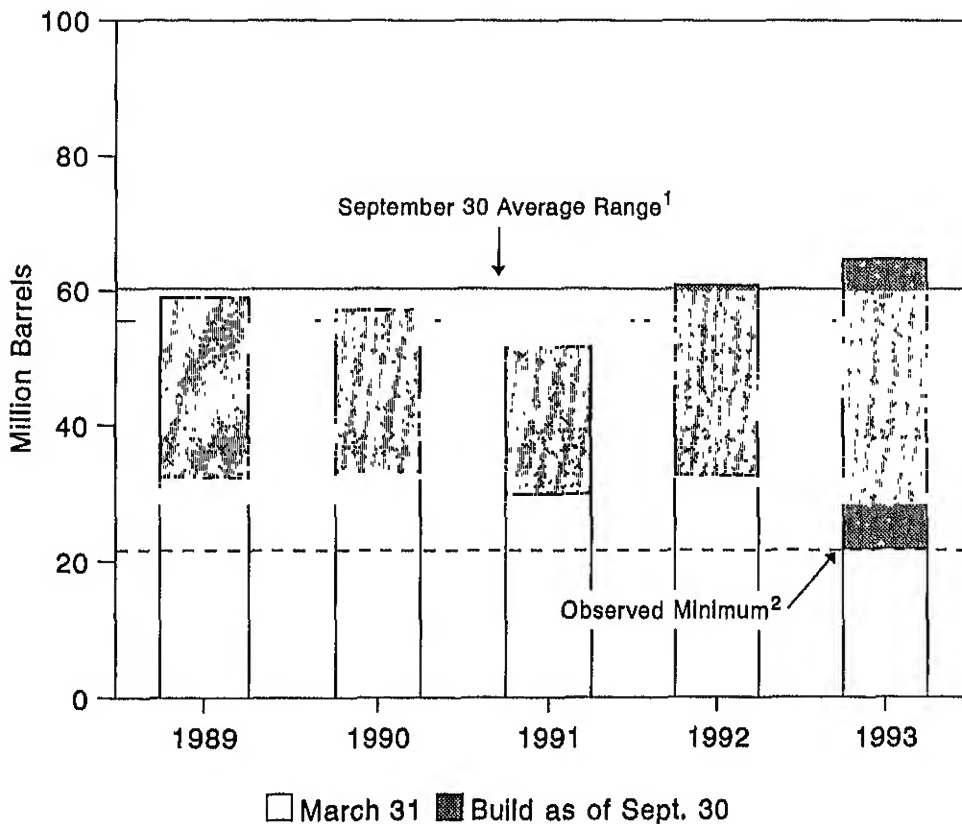
## Summary

The outlook for propane supplies in the United States during the 1993-1994 winter heating season (defined as October through March) is optimistic and continues to improve. Despite the extremely low inventory level reached at the end of last winter, domestic propane supplies have recovered well, and primary stock levels reached over 64 million barrels by the end of September 1993 (Figure FE9). The combination of factors causing the severe inventory depletion in the fall of 1992 is unlikely to be repeated, and typical seasonal demand would only lead to season-ending stocks of about 33 million barrels,

about 11 million barrels higher than in spring 1993. Given anticipated supply and demand conditions, average residential prices would be expected to rise about 4 cents per gallon through January, and decline by the end of March.

Even under certain adverse scenarios, U.S. propane supplies appear adequate to serve market needs during the coming winter. Weather is the most likely source of concern, because it affects peak winter demand. Under two different hypothetical severe weather cases (moderately colder all season and severely colder during the peak demand months), domestic inventories were seen to fall to near last season's

Figure FE9. Propane Stocks March 31 and September 30, 1989 - 1993



<sup>1</sup>Average level and width of average range based on 3 years of monthly data: January 1990 - December 1992.

<sup>2</sup>The Observed Minimum for propane stocks is based on final monthly data for the last 36 month period and was 21.8 million barrels, occurring in March 1993.

Sources: Data for 1989 - 1992, Energy Information Administration (EIA), *Petroleum Supply Annual 1989-1992*, DOE/EIA-0340(89-92), Volume 1, Table 2; data for January-July 1993, EIA, *Petroleum Supply Monthly 1993*, DOE/EIA-0109(93/01-09), Table 2; and data for August-September 1993, EIA, Form EIA-807 "Propane Telephone Survey."

ending level, with peak prices at most 4 cents above those in the base case. Potential supply problems are more difficult to model, due to the nearly unlimited possibilities, but the U.S. propane supply system has proven to possess sufficient capacity and diversity to cope with all but the most widespread breakdowns.

One area of potential concern following last winter was inventory levels in Petroleum Administration for Defense (PAD) District II, the Midwestern United States. PAD District II was the hardest hit by last season's supply drawdown, primarily caused by high demand for propane for crop drying. Stocks in the area were rapidly drawn down during fall 1992, reaching record low levels during the late winter, and were slow to recover in the off-season. However, high crop-drying demand is not expected this fall, partly because of extensive flood damage during the summer, and PAD District II stocks reached acceptable levels by the beginning of the peak heating season demand.

This article reviews the major components of propane supply and demand in the United States, and their status entering the 1993-1994 heating season. Other influences on prices are also discussed. Finally, a base case and two adverse scenarios are described for the heating season outlook, focusing on inventory levels and residential prices.

## Supply

The three principal sources of propane supply during the winter heating season are domestic production at natural gas processing facilities and at petroleum refineries, withdrawals from inventory, and net imports (imports minus exports) (Table FE4). Since gas plants and refineries, storage facilities, and import terminals are widely dispersed throughout the United States, propane markets rely on interregional movements of propane, primarily by pipeline, railcar, tanker, and barge.

<sup>1</sup>*Gas Processors Report*, June 14, 1993, Houston, Texas, page 2.

<sup>2</sup>*Pace Petrochemical Service*, June 1993, page 118.

Domestic production has traditionally accounted for the largest share of U.S. domestic propane supply, followed by inventory withdrawals and net imports. During the 1992-1993 heating season (October through March), domestic production accounted for 78 percent of the U.S. supply of propane. During this same period, inventory drawdowns accounted for 17 percent of U.S. propane supply, while net imports provided the remaining 5 percent.

For the first 7 months of 1993, the supply of propane from domestic production remained relatively unchanged compared with the same period during 1992. Breaking with past trends, the share of propane from natural gas plants rose slightly while the supply of propane from refiners fell during this same period. The increase in refinery output of propane the past few years was the result of higher crude oil runs at refineries in association with the increase in production of some products such as motor gasoline. Since propane is essentially a byproduct of other refinery operations, higher refinery production of products such as motor gasoline promotes higher production of propane. The modest increase in propane supply from gas processing plants during the first 7 months of 1993, compared with the same period last year, was the result of several factors. First, the 1993 start-up of two new pipelines in PAD District III greatly facilitated the movement of propane to the Gulf Coast region. With the availability of expanded pipeline capacity in the Gulf Coast region, gas plant production was no longer constrained as in prior years.<sup>1</sup> Secondly, gas plants continued to recover large amounts of propane due to high yields and high natural gas throughput,<sup>2</sup> the latter in response to rising gas prices.

Inventory withdrawals of propane are the second largest source of supply during the heating season. Historically, U.S. propane inventories are built up during the spring and summer months when demand is low, and propane is withdrawn from inventories during the fall and winter months when demand is

**Table FE4. Average Propane Supply, Demand, and Price**  
(Million Barrels per Day Except Where Noted)

Category	Winter 1990-1991	Winter 1991-1992	Winter 1992-1993
Production	0.91	0.94	0.96
Net Imports	0.05	0.06	0.06
Ending Stocks, September and March (Million Barrels)	57.2-29.8	51.6-32.6	60.8-21.8
	1.10	1.10	1.24
	99.4	89.1	91.8

Note: Averages are calculated using monthly data for the winter heating season months October through March.

Sources: Energy Information Administration, *Petroleum Supply Annual 1992*, DOE/EIA-0340 (92), Volume 2, and predecessor reports; and *Winter Fuels Report*, Week Ending: April 2, 1993, DOE/EIA-0538 (92/93-25), Table 8.

much stronger. Inventory withdrawals during the 1992-1993 heating season supplied a near record 17 percent of total propane supply, the largest share of propane supply since the 1986-1987 heating season. Over the past 5 years, inventory withdrawals have accounted for shares ranging between 9 percent and about 15 percent. Consequently, by the end of the heating season in March 1993, U.S. inventories of propane were drawn down to a 23-year low of 21.8 million barrels.

The smallest component of U.S. supply of propane is net imports. Net imports provide the cushion when consumption rates exceed the rates of available supplies of propane from current domestic production and inventories. During the 1992-1993 heating season, net imports of propane accounted for nearly 5 percent of propane supply. Over the past 5 years, net imports have accounted for shares of total propane supply ranging from 5 percent to 10 percent. Reversing a downward trend of the last 2 years, net imports of propane increased to 58 thousand barrels per day during the first 7 months of 1993, compared with about 42 thousand barrels per day during the same period 1992.

Although Canada traditionally supplies the largest volume of propane to U.S. inventories, Canada's volume of net imports for the first 7 months of 1993 is down about 8 percent from the same period last year. Like the United States, Canada's supply of propane reached record lows last winter; subsequently Canadian stockholders have been busy replenishing local stocks before the onset of winter. As of September 1, 1993, Canadian inventories stood at 5.6 million barrels, nearly 4 percent below the level of specification<sup>3</sup> grade propane in inventory this time last year. However, Canadian propane remains an important source for incremental supplies during both stockbuilding periods and for periods of peak demand during the winter heating season.

The remaining source of non-Canadian imports is mostly waterborne supplies from the Persian Gulf, North Africa, and South America. Waterborne net imports of propane to the United States for the first 7 months of 1993 were nearly triple the volume compared with the same period last year. Algeria and Saudi Arabia accounted for most of the increase in waterborne net imports between the first 7 months of 1993 and the same period during 1992. Although waterborne net imports have been relatively low the past few years, U.S. propane prices during 1993 have been high enough to attract international propane.

## Demand

Propane demand in the United States derives from several different sectors, primarily residential/commercial (35

percent), petrochemical (43 percent), and agricultural (8 percent). The remainder of propane demand is made up of industrial, gas utility, and other use sectors.<sup>4</sup> Similar to other energy markets, propane demand is primarily affected by prices, macroeconomic growth, and weather. Moreover, variations exist between both regional and seasonal market sector demand for propane.

The residential and commercial sectors primarily consume propane as a heating and cooking fuel. Because of the predominance of space heating in residential usage, demand in this sector is extremely weather-dependent. Moreover, the concentration of heating demand in the residential sector varies dramatically from region to region. For example, in the Northeast only 17 percent of all residential propane consumers use propane as their main heating fuel. In the South, 63 percent of all residential consumers of propane use it to heat their homes during the winter. In contrast, more than two-thirds of all propane consumers in the Midwest use propane as their main heating fuel, the highest concentration of any region.<sup>5</sup>

Petrochemical industry use of propane comprises the largest sector demand for propane and is mainly concentrated on the Gulf Coast (PAD District III). Propane is used in petrochemical production mainly as a feedstock for ethylene crackers.<sup>6</sup> Propane competes with other potential feedstocks according to the relative price and yield of both feedstocks and products. Therefore, the petrochemical industry will switch a portion of their feedstock requirements, as well as purchases, to alternative, less costly feedstocks, during the winter months when residential heating demand is strongest.

Agricultural demand for propane is primarily concentrated in the Midwest (PAD District II) and includes diverse uses such as crop drying, weed control, poultry breeding, and heating of farm buildings. Crop drying, the largest component of agricultural demand, is not only seasonal, but can vary greatly from year to year depending on crop size and moisture content. This was most evident last fall when heavy rains caused one of the largest and wettest corn harvests in recent years. Additionally, the corn harvest began later than usual, causing the period of peak agricultural demand to overlap the beginning of the residential heating season.

## Prices

Propane prices in the United States, like those for all petroleum products, are influenced by a complex set of domestic and international factors. Chief among these are the prices for crude oil and natural gas, competing heating fuels, and alternative petrochemical feedstocks, as well as the domestic and international propane supply/demand balance. Despite this

<sup>3</sup>The National Energy Board of Canada classifies propane inventories as either "specification" grade propane (pure propane) or "mix" grade (propane mixed with ethane or butane).

<sup>4</sup>American Petroleum Institute, *Sales of Natural Gas Liquids and Liquefied Refinery Gases*, September 1992, Table 4, pp. 6 and 7.

<sup>5</sup>Energy Information Administration, *Housing Characteristics 1990*, DOE/EIA-0314(90), Tables 19, pp. 60-61.

<sup>6</sup>Ethylene crackers are the primary petrochemical processing units that convert various feedstocks, such as propane, into the intermediate product ethylene.

range of influences, U.S. propane prices have typically been more stable than those for its raw materials and competing products.

The most widely-watched prices for propane in the United States are those for spot market transactions at the major distribution hubs of Mont Belvieu, Texas, and Conway, Kansas. Mont Belvieu is the center for supplies to the Gulf Coast petrochemical industry and the East Coast via pipeline, while Conway provides pipeline shipments to the Midwest and railcar loadings for other areas. Along with the individual price levels at these two points, the differential between them is significant, providing an indication of the supply balance between the Gulf Coast and Mid-Continent areas. In recent years, Mont Belvieu prices have typically averaged several cents higher than those at Conway. However, since PAD District II inventories (including Conway) were severely reduced last winter, Conway prices have remained near or above those at Mont Belvieu, providing a slight incentive for shipments to the Mid-Continent region.

Prices for crude oil and natural gas, the raw materials from which propane is derived, generally moved in opposite directions over the summer of 1993, leading to uncertain cost influences. Crude oil prices slipped over \$3 per barrel from March through September, due to continued oversupply and rekindled uncertainty about Iraq's possible return to world markets. Natural gas prices, by contrast, have gradually risen since early June, primarily due to low pre-season storage levels.

Other significant indicators for U.S. propane markets include prices for propane on international markets and for alternative domestic petrochemical feedstocks. As with other products, a sufficient price differential between the United States and other world markets will have a significant effect on import/export flows. For most of 1993, propane prices in the United States have been several cents above those in European markets, sufficient to maintain average, but not exceptional, U.S. propane imports. The price comparison between propane and other petrochemical feedstocks is more complicated, in that each potential feedstock has not only a different price, but a different ethylene yield and mix of co-products. With crude oil prices currently depressed more than those for propane, gasoil (distillate) becomes a relative bargain compared to propane for petrochemical feedstock purposes.

## Outlook Scenarios

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optimistic and improving. The spring and summer stock build in 1993 overcame, for the most part, the inventory depletion of the previous winter, and high domestic production levels allowed this recovery to be completed in time for the start of the heating season. Average prices are moderate, similar to recent years' pre-season levels, with some differences in regional differentials.

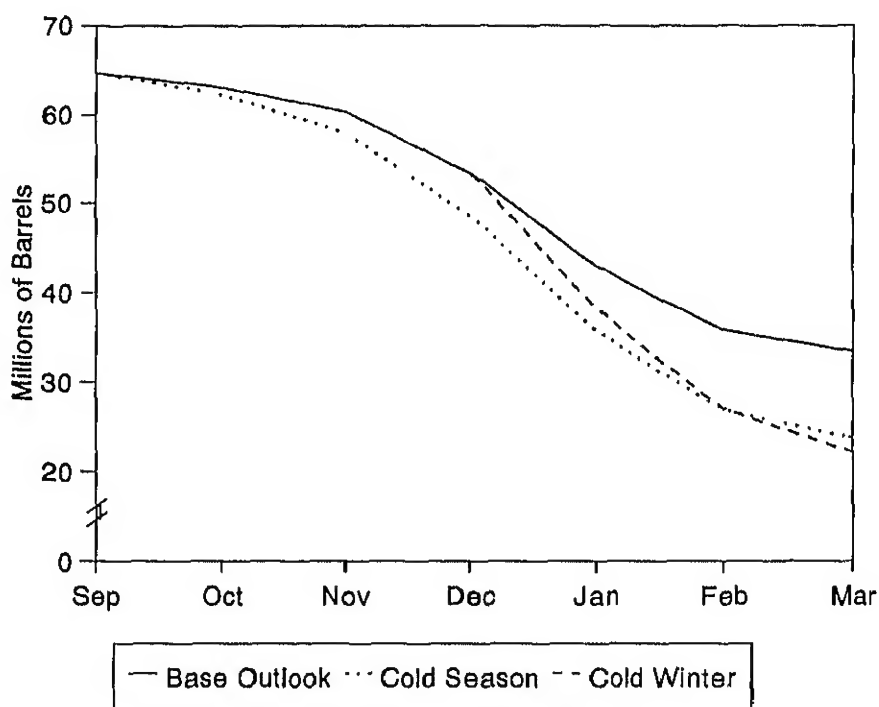
Assuming average weather and crop drying, and no unusual and unforeseen events or conditions, propane supplies should be adequate throughout the entire season. Primary stocks at the national level (Figure FE10) began October at over 64 million barrels, and are projected to experience a gradual drawdown over the season to about 33 million barrels, both above the average of recent years.<sup>7,8</sup> The ending level would be about 11 million barrels above that reached in the spring of 1993. Residential prices (Figure FE11) would be expected to increase moderately, beginning at an average of 88 cents per gallon at the end of September, rising to 92 cents in January, and falling back to about 87 cents in March. This represents a slightly higher starting point than last winter's, but lower mid- and late-season price levels, based on less drastic inventory depletion than that seen in 1992-1993.

In order to assess the capacity of propane markets to respond to different conditions, various alternate hypothetical scenarios were considered. In evaluating possible alternate scenarios for the heating season, the critical variable is assumed to be weather, as measured by heating degree-days. While other demand or supply factors can have a significant impact, they are more difficult to assess, and generally less pervasive, than extreme and widespread cold weather. Under a scenario of moderately colder weather throughout the Nation and the heating season (10 percent more heating degree-days), the impacts on U.S. propane supplies and prices would be significant, but not critical. Inventory levels would drop at a steadily more rapid pace throughout the season, with primary stocks ending at approximately 24 million barrels, slightly above last season. Residential prices would peak about 3 cents higher in February, at 95 cents, and would only fall back to about 91 cents in March.

However, if the colder weather is concentrated in the peak demand months, rather than spread over the season, market reaction is more dramatic. For example, another potential scenario considers the impact of similarly greater heating demand over the season, but concentrated into the coldest winter months. A 10-percent overall increase in heating degree-days for the season, focused in the months of January through March (amounting to a 17-percent increase for those months), would result in a more drastic stock draw during that

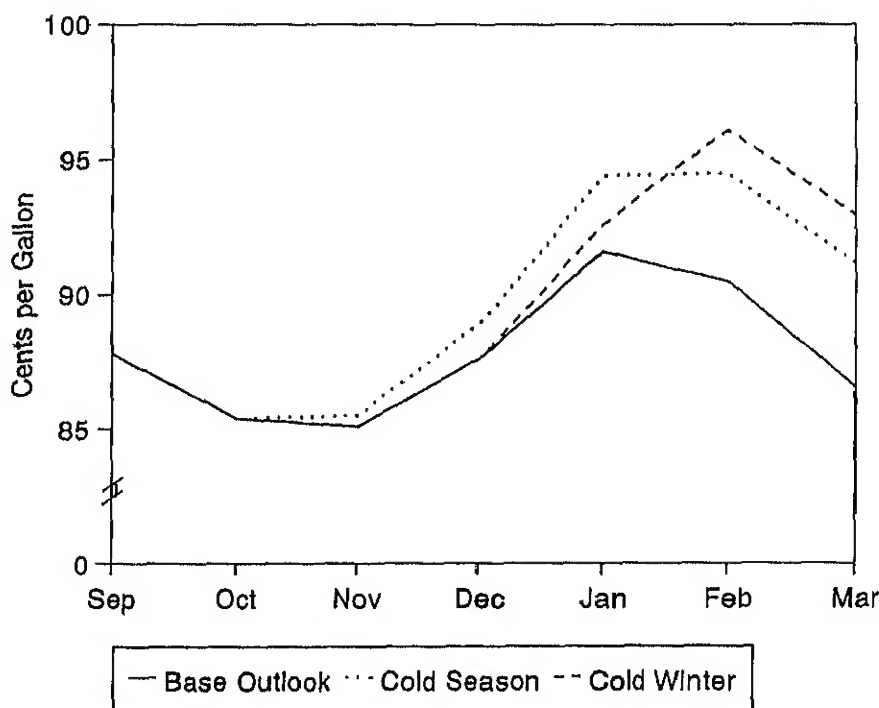
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Sources: September 1993; Energy Information Administration, Form EIA-807, "Propane Telephone Survey", October - March; Estimates derived from regression model.

**Figure FE11. Comparison of Alternative Weather Scenarios on Propane Price Outlook**



Sources: September 1993; Energy Information Administration, Form EIA-807, "Propane Telephone Survey", October - March; Estimates derived from regression model.

period, culminating in an ending stock level of approximately 22 million barrels, about 2 million barrels less than in the previous case. The price impact of this scenario would likewise be slightly more intense, resulting in a rise to 96 cents in February, and a season-ending price of 93 cents.

In summary, the combination of adequate pre-season inventories, high production levels, and moderate net imports

should provide a sufficient supply cushion to weather foreseeable circumstances over the coming heating season. The confluence of heavy crop-drying demand and cold weather seen last year is not expected to recur, due both to the unusual combination of weather factors involved, and the crop damage already experienced due to flooding over the summer in the Midwest.



## Highlights



# Highlights

## Overview

Crude oil prices worldwide posted a modest recovery during the month of August 1993, temporarily ending a 5-month decline since early March. With global oil production virtually even with that in July, there was little change in market fundamentals, but expectations of a seasonal increase in demand in the fourth quarter kept prices from falling further. Additionally, after declining nearly \$3 per barrel since the beginning of June, prices had reached such low levels that corrective action by the Organization of Petroleum Exporting Countries (OPEC) at its September meeting seemed likely.

In the United States, daily spot and futures prices for crude oil rose in late August, but low prices early in the month resulted in a small decline for monthly averages. The daily spot price of West Texas Intermediate

crude oil at Cushing, Oklahoma, fell to a low of \$17.30 per barrel on August 6, then climbed unsteadily to a peak of \$18.82 on August 27, and ended the month at \$18.24, 33 cents above the end of July. The composite refiner acquisition cost of crude oil in the United States fell 26 cents (1.6 percent) in August, to \$15.84 per barrel.

Petroleum product prices on U.S. markets diverged from crude oil and each other, as seasonal factors were a major influence on prices. The New York Harbor daily spot price of unleaded regular gasoline climbed over 5 cents in early August, largely due to a rapid decline in inventory levels late in the peak driving season. Prices fell for the remainder of the month, ending only 0.4 cent higher than they began. In contrast, the spot price of No. 2 heating oil at New York Harbor fell early in the month, but quickly recovered and climbed for the remainder, gaining 3.0 cents from its end-of-July level. Led by increases in distillate and re-

**Table HL1. U.S. Refiner Prices and Volumes of Petroleum Products**  
(Prices: Cents per Gallon Excluding Taxes, Volumes: Million Gallons per Day)

Products	Sales to End Users						Sales for Resale					
	August 1993		July 1993		August 1992		August 1993		July 1993		August 1992	
	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume	Price	Volume
<b>Motor Gasoline</b> .....	76.3	58.5	77.6	58.8	82.3	59.1	62.9	274.4	62.7	277.0	70.6	265.8
Leaded Regular .....	76.2	5	77.7	.5	85.6	.7	65.8	3.4	66.9	3.3	74.9	4.3
Unleaded Regular .....	71.3	37.5	72.7	37.8	77.8	38.8	59.6	186.8	59.3	189.3	67.3	182.1
Unleaded Midgrade .....	80.6	9.4	81.9	9.4	86.2	9.2	66.1	28.7	66.1	29.2	73.3	28.0
Premium .....	89.5	11.0	90.5	11.0	95.3	10.4	72.4	55.5	72.5	55.2	80.3	51.3
<b>Aviation Gasoline</b> .....	98.8	.2	99.7	.2	105.7	.2	96.9	.8	97.9	.8	102.6	.8
<b>Kerosene-Type Jet Fuel</b> .....	54.6	42.6	55.3	43.1	64.2	42.1	65.2	8.0	55.1	7.7	63.9	7.7
<b>Propane (Consumer Grade)</b> ..	62.6	2.5	62.2	2.1	55.8	3.1	33.3	24.9	33.3	21.6	32.9	24.2
<b>Kerosene</b> .....	61.9	.1	61.4	.1	69.0	.1	55.6	1.1	53.6	.8	64.2	1.1
<b>No. 1 Distillate</b> .....	56.9	.2	61.5	.3	68.2	.2	57.9	1.0	59.0	.6	68.0	1.1
<b>No. 2 Distillate</b> .....	56.0	23.5	56.6	23.2	63.3	24.2	52.2	99.1	52.2	92.8	60.3	90.0
No. 2 Fuel Oil .....	54.6	2.6	54.1	2.6	62.3	2.6	50.9	44.2	51.0	39.5	60.1	39.2
No. 2 Diesel Fuel .....	56.2	20.9	56.9	20.6	63.4	21.6	53.3	54.9	53.1	53.3	60.4	50.8
<b>No. 4 Fuel<sup>a</sup></b> .....	46.3	.4	45.4	.5	55.3	.3	46.7	.1	45.4	.1	49.1	.2
<b>Residual Fuel Oil</b> .....	31.7	16.3	33.2	15.1	38.8	18.9	27.3	10.5	27.4	10.6	34.7	12.6
Sulfur Content not > 1 % .....	37.2	6.1	41.9	5.3	42.1	6.5	32.1	4.3	32.7	3.7	37.7	4.0
Sulfur Content > 1 % .....	28.4	10.2	28.5	9.8	37.0	12.4	24.0	6.1	24.6	6.9	33.2	8.6

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals or averages may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

sidual fuel oils, total refiner sales of the major petroleum products increased 8.7 million gallons (1.6 percent) from July.

August sales activity for crude oil and the principal petroleum product groups is summarized in the following sections.

### ***Crude Oil***

The average free-on-board (f.o.b.) cost of imported crude oil purchased in August dropped 2 cents (0.1 percent) to \$14.23 per barrel. The average landed cost of foreign crude oil fell 19 cents (1.2 percent) to \$15.26 per barrel. Domestic crude oil first purchase prices decreased 7 cents (0.5 percent) to \$13.71 per barrel.

In August, the average refiner acquisition cost of domestic crude oil was \$16.03 per barrel, a 33-cent (2.0 percent) drop from July. The average cost of imported crude oil to U.S. refiners fell 20 cents (1.3 percent) to \$15.62 per barrel.

### ***Motor Gasoline***

Total refiner sales of finished motor gasoline in August fell 2.9 million gallons per day (0.9 percent) from July levels, to 332.9 million gallons per day. Wholesale sales decreased 2.6 million gallons per day (0.9 percent) and retail sales fell 300,000 gallons per day (0.5 percent).

Average refiner prices for motor gasoline fell 1.3 cents to 76.3 cents per gallon at the retail level, and rose 0.2 cent to 62.9 cents per gallon for wholesale. Including data reported by the sample of motor gasoline marketers, national average retail prices dropped 1.2 cents to 76.3 cents per gallon at company-operated retail out-

lets, and 0.2 cent to 71.5 cents per gallon for sales to other end users. Average wholesale prices rose 0.1 cent to 63.2 cents per gallon.

### ***No. 2 Distillate***

Total refiner sales of No. 2 distillate increased 6.6 million gallons per day (5.7 percent) to 122.6 million gallons per day. No. 2 fuel oil sales rose 4.7 million gallons per day (11.2 percent), while No. 2 diesel fuel sales increased 2.0 million gallons per day (2.7 percent).

Average retail prices decreased in all categories during August. The national average residential price dropped 1.6 cents to 84.0 cents per gallon. The average wholesale price remained at the July level of 53.0 cents per gallon.

### ***Residual Fuel Oil***

Total refiner sales of residual fuel oil increased 1.1 million gallons per day (4.3 percent) to 26.8 million gallons per day. Low-sulfur residual fuel sales rose 1.4 million gallons per day (15.6 percent), while high-sulfur sales fell 300,000 gallons per day (1.8 percent).

Residual fuel oil prices decreased in almost all categories in August. Refiner retail prices fell 4.7 cents and 0.1 cent per gallon for low-sulfur and high-sulfur residual fuel, respectively. Residual fuel wholesale prices for sales by refiners decreased 0.6 cent per gallon for both low-sulfur and high-sulfur. Including data reported by the sample of residual fuel oil marketers, average retail prices fell 2.8 cents per gallon for low-sulfur and rose 0.1 cent per gallon for high-sulfur. Average wholesale prices dropped 0.5 cent per gallon for low-sulfur and rose 1.5 cents per gallon for high-sulfur.

## Summary Statistics

**Table 1. Crude Oil Prices**  
(Dollars per Barrel)

Year Month	Domestic First Purchase Prices	Average FOB <sup>a</sup> Cost of Crude Oil Imports <sup>b</sup>	Average Landed Cost of Crude Oil Imports <sup>b</sup>	Refiner Acquisition Cost of Crude Oil		
				Domestic	Imported	Composite
1978 Average . . .	9.00	13.29	14.35	10.61	14.57	12.46
1979 Average . . .	12.64	20.07	21.45	14.27	21.67	17.72
1980 Average . . .	21.59	32.37	33.67	24.23	33.89	28.07
1981 Average . . .	31.77	35.15	36.47	34.33	37.05	35.24
1982 Average . . .	28.52	32.02	33.18	31.22	33.55	31.87
1983 Average . . .	26.19	27.81	28.93	28.87	29.30	28.99
1984 Average . . .	25.88	27.60	28.54	28.53	28.88	28.63
1985 Average . . .	24.09	25.84	26.67	26.66	26.99	26.75
1986 Average . . .	12.51	12.52	13.49	14.82	14.00	14.55
1987 Average . . .	15.40	16.69	17.65	17.76	18.13	17.90
1988 Average . . .	12.58	13.25	14.08	14.74	14.66	14.67
1989 Average . . .	15.86	16.89	17.68	17.87	18.08	17.97
1990 Average . . .	20.03	20.37	21.13	22.59	21.76	22.22
<b>1991</b>						
January . . . . .	19.60	19.95	20.86	23.25	22.30	22.85
February . . . . .	16.28	16.31	17.26	19.55	18.30	19.03
March . . . . .	15.13	15.89	17.16	18.12	17.58	17.89
April . . . . .	16.16	16.58	17.78	18.56	18.32	18.46
May . . . . .	16.44	16.45	17.82	18.98	18.36	18.70
June . . . . .	15.58	15.81	17.16	18.16	17.78	17.98
July . . . . .	16.36	16.73	17.84	18.91	18.14	18.57
August . . . . .	16.60	16.99	18.20	19.10	18.71	18.92
September . . . . .	16.71	17.48	18.63	19.31	19.00	19.17
October . . . . .	17.72	18.12	19.03	20.39	19.86	20.16
November . . . . .	17.12	17.51	18.33	20.01	19.35	19.72
December . . . . .	14.68	15.11	16.19	17.84	17.17	17.56
1991 Average . . . . .	16.54	16.89	18.02	19.33	18.70	19.06
<b>1992</b>						
January . . . . .	13.99	14.32	15.28	16.80	16.10	16.50
February . . . . .	14.04	14.68	15.60	16.54	16.00	16.30
March . . . . .	14.12	14.96	16.00	16.71	16.36	16.56
April . . . . .	15.36	16.57	17.40	17.88	17.37	17.66
May . . . . .	16.38	17.56	18.38	18.86	18.79	18.83
June . . . . .	17.96	18.38	19.44	20.13	19.83	19.99
July . . . . .	17.80	18.01	19.13	20.42	19.74	20.10
August . . . . .	17.07	17.85	18.74	19.84	19.25	19.56
September . . . . .	17.20	18.04	18.90	19.88	19.26	19.59
October . . . . .	17.16	17.68	18.75	19.64	19.34	19.49
November . . . . .	16.00	16.49	17.64	18.90	18.40	18.66
December . . . . .	14.94	15.62	16.58	17.85	16.94	17.43
1992 Average . . . . .	15.99	16.77	17.75	18.63	18.20	18.43
<b>1993</b>						
January . . . . .	14.64	15.24	16.34	17.40	16.78	17.10
February . . . . .	15.47	16.09	17.12	17.84	17.41	17.64
March . . . . .	15.88	16.61	17.56	18.31	17.82	18.08
April . . . . .	16.08	16.39	17.58	18.49	18.35	18.42
May . . . . .	15.97	16.27	17.35	18.43	17.89	18.16
June . . . . .	15.00	15.12	16.31	17.70	16.80	17.26
July . . . . .	13.78	14.25	15.45	16.36	15.82	16.10
August . . . . .	13.71	14.23	15.26	16.03	15.62	15.84

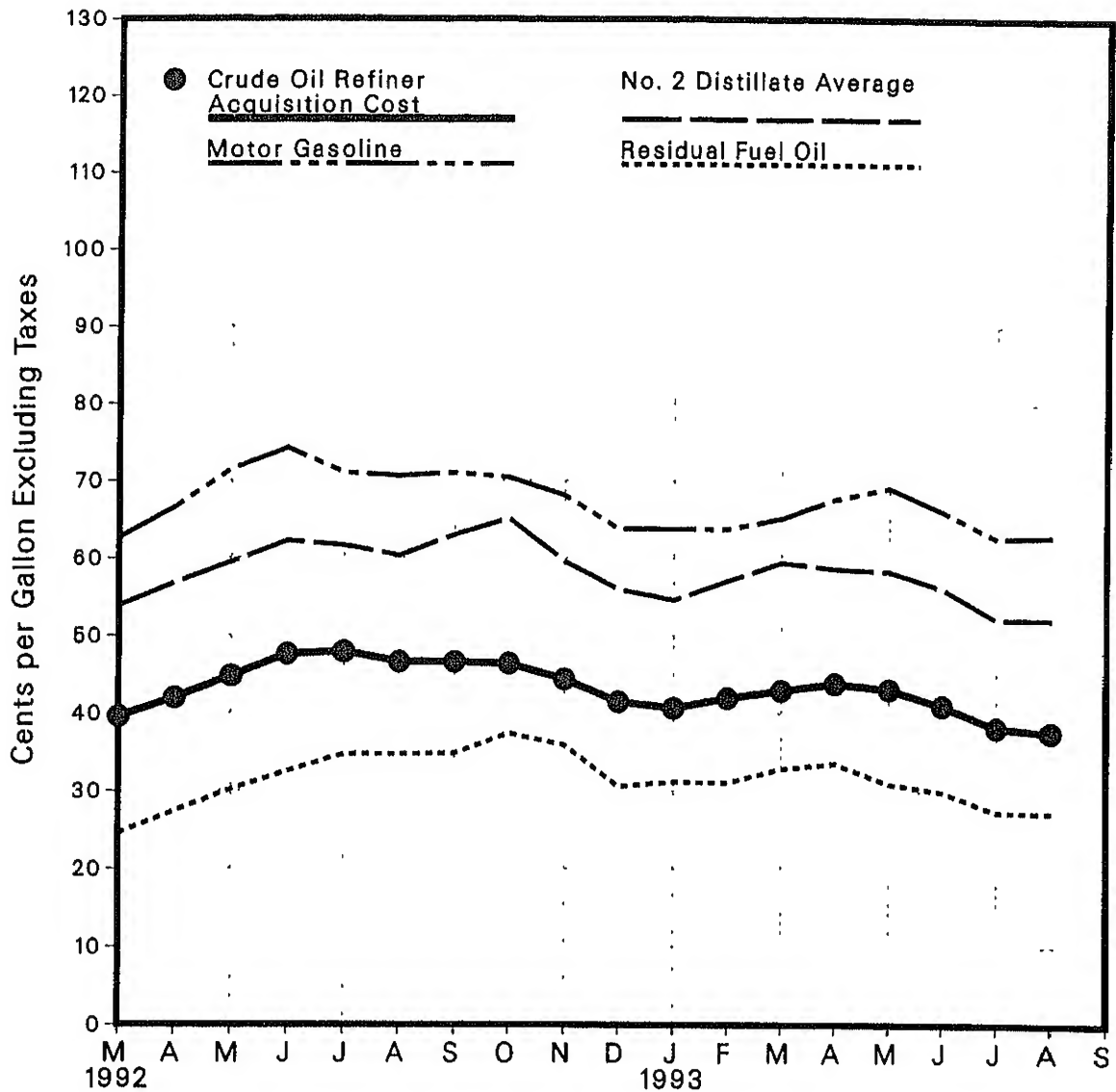
<sup>a</sup> FOB = Free on Board. See Glossary.

<sup>b</sup> Values through 1980 reflect the month of reporting, values since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Note: Values for Domestic First Purchase and Refiner Acquisition for the current month, and for Average FOB and Average Landed for current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Domestic first purchase prices -- See "Sources" from Table 20. Crude oil imports costs -- See "Sources" from Table 21. Refiner acquisition costs -- See "Sources" from Table 19.

Figure 1. Comparison of Crude Oil Prices to U.S. Wholesale Product Prices



Source: Energy Information Administration. Crude Oil: Form EIA-14, "Refiners Monthly Cost Report." Products: Form EIA-782A, "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 2. U.S. Refiner Prices of Petroleum Products to End Users**  
(Cents per Gallon Excluding Taxes)

Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Fuel Oil	No. 2 Diesel Fuel	Average		
1978 Average	48.4	51.6	38.7	33.5	42.1	40.9	40.0	37.7	39.6	31.1	29.8
1979 Average	71.3	68.9	54.7	35.7	58.5	57.2	51.6	58.5	55.1	47.9	43.6
1980 Average	103.5	108.4	86.8	48.2	90.2	83.4	78.8	81.8	80.4	68.2	60.7
1981 Average	114.7	130.3	102.4	56.5	112.3	103.9	91.4	99.5	95.8	79.7	75.6
1982 Average	106.0	131.2	96.3	59.2	108.9	102.3	90.5	94.2	92.5	75.0	67.6
1983 Average	95.4	125.5	87.8	70.9	96.1	96.2	91.6	82.6	83.9	76.6	65.1
1984 Average	90.7	123.4	84.2	73.7	103.6	92.7	91.6	82.3	83.7	79.6	68.7
1985 Average	91.2	120.1	79.6	71.7	103.0	88.0	84.9	78.9	79.9	77.3	61.0
1986 Average	62.4	101.1	52.9	74.5	79.0	62.0	56.0	47.8	49.1	48.9	34.3
1987 Average	66.9	90.7	54.3	70.1	77.0	60.4	58.1	55.1	55.6	51.3	42.3
1988 Average	67.3	89.1	51.3	71.4	73.8	56.4	54.4	50.0	50.7	46.1	33.4
1989 Average	75.6	99.5	59.2	61.5	70.9	68.1	58.7	58.5	58.5	51.2	38.5
1990 Average	88.3	112.0	76.6	74.5	92.3	81.9	73.4	72.5	72.6	62.2	44.4
1991											
January	88.8	112.1	81.1	86.7	105.0	89.0	84.3	80.5	81.2	75.4	53.4
February	79.5	106.4	73.7	81.4	96.9	77.8	75.2	71.4	72.0	60.2	39.8
March	74.0	101.3	62.1	76.0	88.8	68.4	64.5	61.8	62.2	54.8	32.3
April	77.0	101.2	58.7	67.4	73.8	67.6	61.6	60.6	60.8	54.1	30.2
May	82.0	105.3	60.1	66.7	69.3	65.5	58.9	60.1	59.9	51.5	31.0
June	81.9	105.2	59.2	62.8	62.3	62.8	56.3	57.9	57.7	49.5	29.5
July	78.9	103.6	59.7	61.1	64.7	64.7	59.1	59.5	59.4	50.0	31.2
August	81.1	105.8	63.8	63.6	68.7	68.2	62.3	63.3	63.2	53.6	31.1
September	80.2	105.7	66.6	65.0	73.6	69.7	63.9	64.8	64.7	52.9	30.6
October	77.9	104.6	67.8	68.0	81.6	73.5	68.5	68.0	68.1	58.4	32.3
November	79.1	104.3	69.6	73.7	94.3	76.3	70.9	69.7	69.9	57.5	35.1
December	76.0	102.0	61.5	78.2	85.8	66.3	63.0	60.9	61.2	54.3	33.1
1991 Average	79.7	104.7	65.2	73.0	83.8	74.0	66.5	64.8	65.0	58.0	34.0
1992											
January	71.9	98.5	54.2	71.3	83.3	60.6	59.7	55.5	56.2	50.6	28.8
February	70.8	98.5	56.5	NA	78.3	63.1	62.0	57.1	57.7	49.6	27.7
March	71.6	98.0	55.5	66.4	80.2	63.2	61.4	56.8	57.4	51.8	27.7
April	75.2	99.1	57.3	70.3	78.3	65.3	60.6	59.2	59.4	49.7	29.6
May	80.8	102.4	61.0	62.5	73.3	67.4	60.9	62.1	62.0	51.7	33.4
June	84.5	106.4	63.9	54.5	68.7	69.3	62.9	64.9	64.7	52.5	34.5
July	83.5	106.8	64.9	52.3	70.5	68.9	62.8	64.5	64.3	51.9	36.7
August	82.3	105.7	64.2	55.8	69.0	68.2	62.3	63.4	63.3	55.3	38.8
September	82.3	104.9	64.6	60.3	70.5	73.2	65.6	65.3	65.3	55.2	37.5
October	81.3	104.3	66.4	59.9	87.2	75.1	68.2	67.8	67.8	57.9	39.2
November	81.5	103.4	62.7	61.1	83.3	72.0	64.3	64.5	64.5	56.3	39.4
December	78.5	101.3	58.9	68.4	84.0	66.6	63.6	60.8	61.2	53.7	36.2
1992 Average	78.4	102.7	61.0	66.2	78.6	66.5	62.7	61.8	61.9	52.6	33.8
1993											
January	76.9	100.3	58.5	74.8	82.4	64.4	62.7	59.0	59.6	52.4	35.3
February	76.1	99.9	59.8	74.3	81.3	66.5	64.6	60.6	61.2	52.4	34.4
March	75.7	99.4	60.6	75.4	83.2	69.2	66.2	62.9	63.3	54.5	35.6
April	77.8	100.7	59.7	69.4	77.0	66.9	61.9	62.5	62.4	54.8	36.3
May	80.1	102.2	59.9	67.3	68.8	65.8	59.8	62.3	62.0	52.3	36.8
June	79.8	102.5	58.7	63.9	65.3	64.0	57.9	60.5	60.2	50.2	34.7
July	77.6	99.7	55.3	62.2	61.4	61.5	54.1	56.9	56.6	45.4	33.2
August	76.3	98.8	54.6	62.6	61.9	58.9	54.6	56.2	56.0	46.3	31.7

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

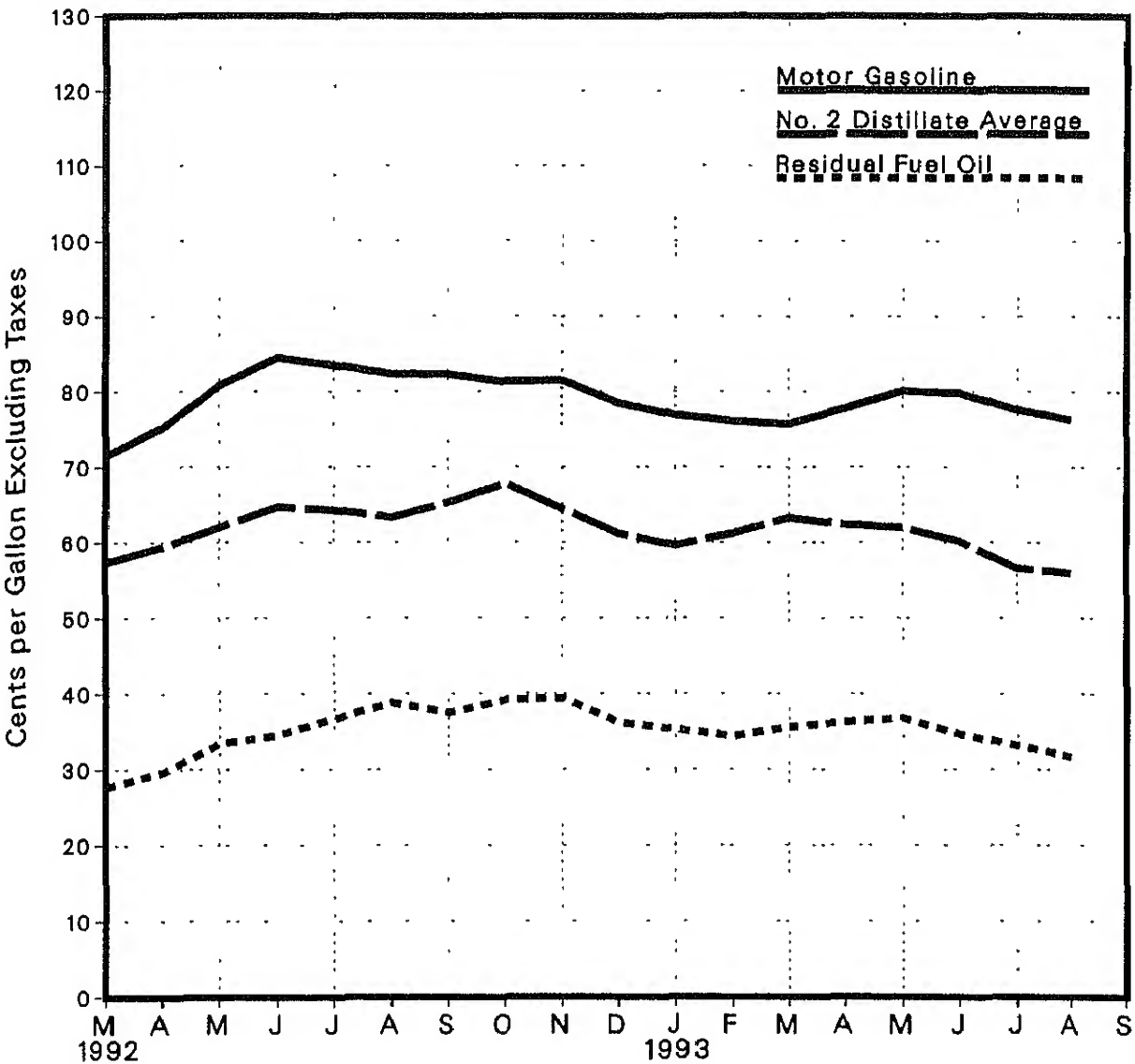
NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Energy Information Administration Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.



Figure 2. U.S. Refiner Retail Product Prices



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 3. U.S. Refiner Volumes of Petroleum Products to End Users**  
(Million Gallons per Day)

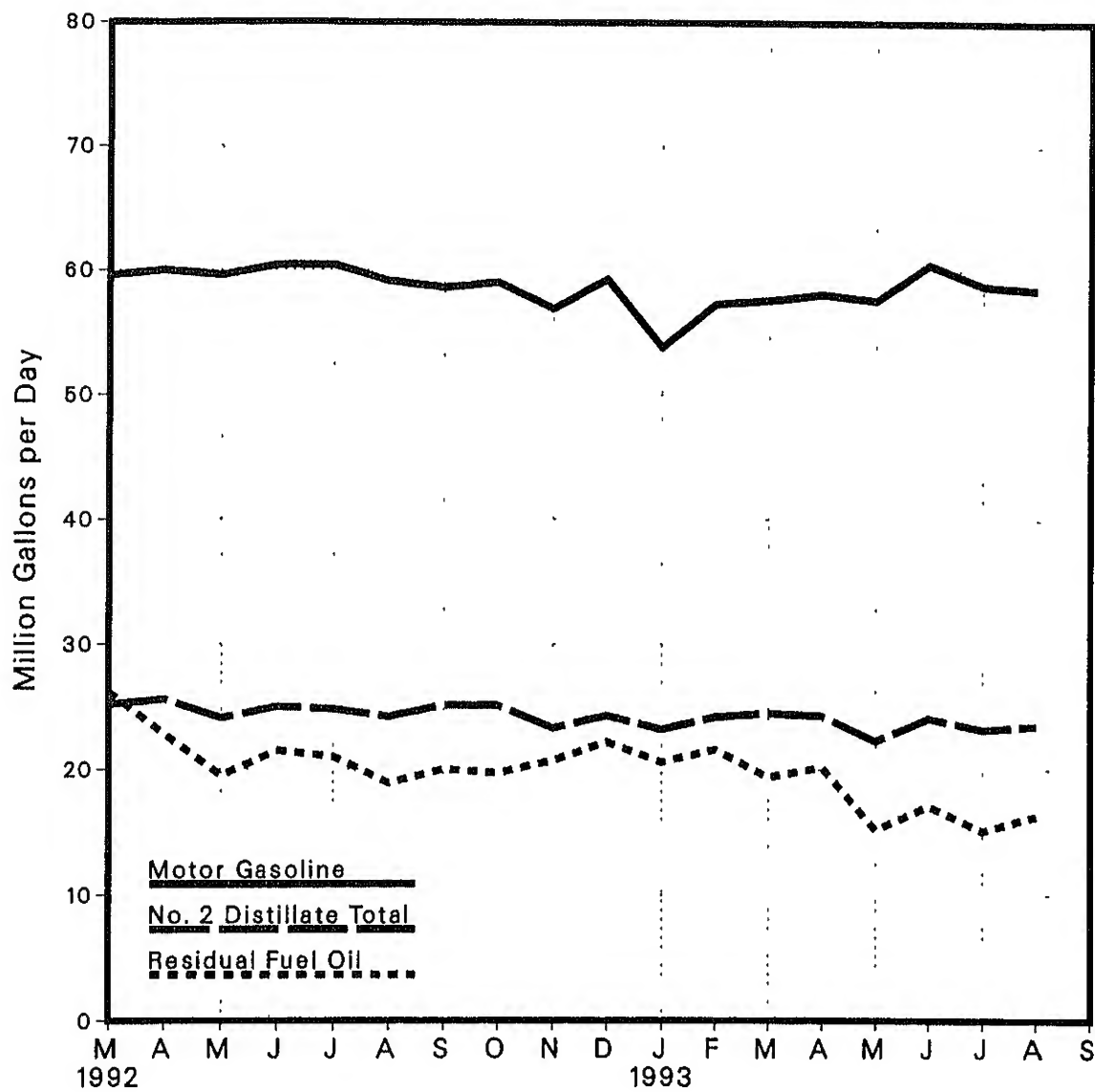
Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Fuel Oil	No. 2 Diesel Fuel	Total		
1983 Average ..	51.1	0.4	30.8	3.1	0.2	0.5	3.7	23.3	27.0	0.7	28.3
1984 Average ..	57.6	.3	32.9	3.3	.3	.5	4.9	28.3	31.2	.7	32.9
1985 Average ..	57.5	.3	34.6	3.7	.3	.5	5.0	25.0	29.9	.5	25.2
1986 Average ..	61.4	.3	34.6	3.6	.3	.4	4.3	24.5	28.8	.6	31.7
1987 Average ..	61.0	.2	36.8	3.8	.3	.4	4.5	24.1	28.5	.8	29.0
1988 Average ..	61.0	.2	38.2	4.3	.3	.4	4.6	24.5	29.1	1.1	30.2
1989 Average ..	61.2	.2	40.1	2.8	.3	.5	4.5	24.3	28.8	.9	30.4
1990 Average ..	60.3	.2	39.9	2.7	.2	.5	3.6	22.2	25.9	.8	25.9
<b>1991</b>											
January ..	56.9	.2	37.9	5.0	.4	1.2	4.4	20.3	24.7	1.2	23.4
February ..	59.4	.2	35.4	3.8	.3	.8	3.6	19.8	23.4	1.0	22.7
March ..	61.6	.2	35.7	3.1	.2	.5	3.4	20.0	23.4	.8	25.4
April ..	62.0	.2	38.4	2.8	.2	.3	3.4	21.2	24.6	.7	22.1
May ..	62.2	.2	39.6	2.1	.1	.2	2.8	21.3	24.1	.4	23.2
June ..	63.3	.2	38.7	1.9	.2	.2	2.8	21.1	24.0	.5	25.9
July ..	62.6	.3	39.9	2.2	.2	.3	2.9	21.3	24.2	.6	28.3
August ..	62.5	.2	41.7	2.3	.3	.3	2.7	22.9	25.6	.5	24.8
September ..	60.3	.2	39.8	2.8	.1	.3	2.8	22.3	25.0	.5	23.1
October ..	61.2	.2	39.4	3.3	.2	.5	3.2	23.0	26.2	.4	19.8
November ..	60.4	.2	38.5	3.7	.2	.7	3.2	20.8	24.1	.6	21.7
December ..	61.5	.2	38.0	4.0	.3	.9	3.6	19.6	23.2	.7	27.6
1991 Average ..	61.2	.2	38.5	3.1	.2	.5	3.2	21.1	24.4	.7	24.0
<b>1992</b>											
January ..	56.4	.2	36.8	4.7	.3	.9	4.1	20.7	24.8	1.0	28.4
February ..	58.3	.2	37.9	4.5	.3	.7	3.4	20.6	23.9	.8	27.9
March ..	59.6	.2	38.5	3.8	.2	.5	3.3	21.9	25.2	.8	26.2
April ..	60.0	.2	39.3	2.7	.1	.3	3.2	22.4	25.6	.5	22.8
May ..	59.6	.2	39.1	2.1	.1	.2	2.8	21.3	24.1	.4	19.5
June ..	60.4	.2	41.3	2.7	.1	.2	2.9	22.1	25.0	.2	21.5
July ..	60.4	.2	42.0	3.2	.1	.3	2.8	22.0	24.8	.5	21.0
August ..	59.1	.2	42.1	3.1	.1	.2	2.6	21.6	24.2	.3	18.9
September ..	58.6	.2	41.3	3.4	.2	.3	2.7	22.4	25.1	.4	20.0
October ..	59.0	.2	40.3	4.3	.2	.4	3.0	22.0	25.1	.5	19.7
November ..	56.9	.2	40.1	5.4	.2	.6	2.8	20.6	23.3	.5	20.7
December ..	59.3	.2	38.9	5.9	.3	.9	3.6	20.7	24.3	.9	22.2
1992 Average ..	59.0	.2	39.8	3.7	.2	.5	3.1	21.5	24.6	.6	21.6
<b>1993</b>											
January ..	53.8	.1	39.2	4.9	.3	.8	3.4	19.7	23.2	.8	20.6
February ..	57.3	.2	39.2	5.2	.3	.9	3.7	20.5	24.2	.9	21.6
March ..	57.6	.2	40.8	4.4	.2	.6	3.4	21.1	24.5	.8	19.4
April ..	58.1	.2	40.7	3.1	.1	.3	3.0	21.3	24.3	.5	20.2
May ..	57.6	.2	41.5	2.0	.1	.2	2.4	19.9	22.3	.4	15.2
June ..	60.5	.2	42.1	2.3	.1	.3	2.9	21.2	24.1	.4	17.1
July ..	58.8	.2	43.1	2.1	.1	.3	2.6	20.6	23.2	.5	15.1
August ..	58.5	.2	42.6	2.5	.1	.2	2.6	20.9	23.5	.4	16.3

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals and averages may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

Figure 3. U.S. Refiner Retail Product Volumes



**Table 4. U.S. Refiner Prices of Petroleum Products for Resale**  
(Cents per Gallon Excluding Taxes)

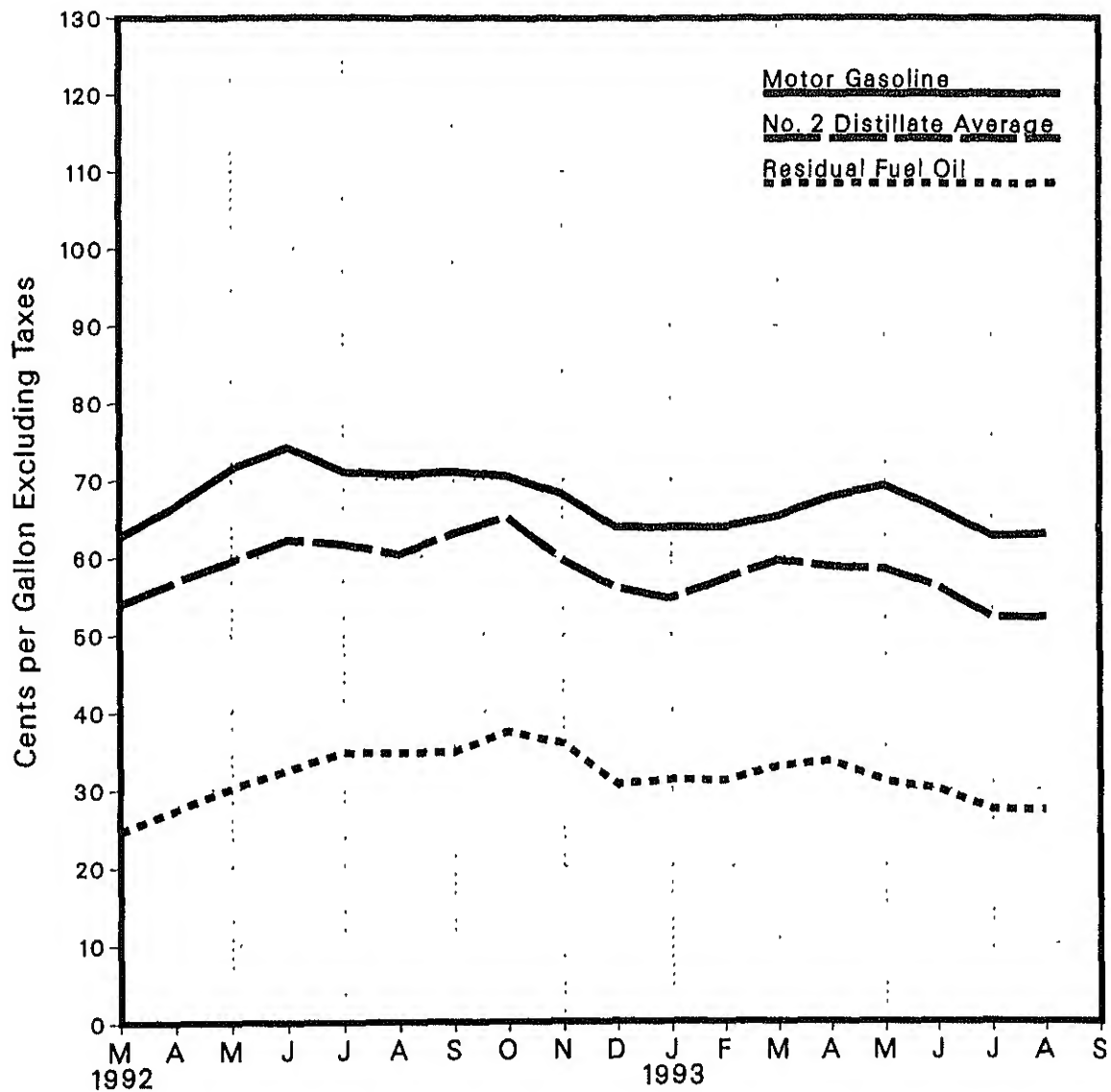
Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel*	Residual Fuel Oil
							No. 2 Fuel Oil	No. 2 Diesel Fuel	Average		
1978 Average ..	43.4	53.7	38.6	23.7	40.4	40.6	36.9	36.5	36.7	30.5	26.3
1979 Average ..	63.7	72.1	66.0	29.1	62.4	58.3	56.9	57.4	57.1	47.0	39.9
1980 Average ..	94.1	112.8	86.8	41.5	86.4	88.0	80.3	80.1	80.2	67.0	52.8
1981 Average ..	106.4	125.0	101.2	46.6	106.6	107.1	97.6	97.2	97.4	78.3	66.3
1982 Average ..	97.3	122.8	95.3	42.7	101.8	103.8	91.4	91.4	91.4	73.7	61.2
1983 Average ..	88.2	117.8	85.4	48.4	89.2	89.6	81.5	80.8	81.2	72.6	60.9
1984 Average ..	83.2	116.5	83.0	45.0	91.6	89.2	82.1	80.3	81.3	70.7	65.4
1985 Average ..	83.5	113.0	79.4	39.8	87.4	86.3	77.6	77.2	77.4	67.2	57.7
1986 Average ..	53.1	91.2	49.5	29.0	60.6	57.9	48.6	45.2	47.0	40.9	30.5
1987 Average ..	58.9	85.9	53.8	25.2	59.2	59.9	52.7	53.4	53.1	46.2	38.5
1988 Average ..	57.7	85.0	49.5	24.0	54.9	54.9	47.3	47.3	47.3	42.5	30.0
1989 Average ..	65.4	95.0	58.3	24.7	65.9	66.8	56.5	56.7	56.6	48.0	36.0
1990 Average ..	78.6	106.3	77.3	38.6	83.9	83.8	69.7	69.4	69.6	59.0	41.3
1991											
January ..	76.2	111.2	82.0	42.2	88.0	85.7	76.6	75.5	76.1	71.6	50.2
February ..	68.0	104.2	74.0	31.6	76.1	74.7	67.9	67.4	67.7	60.1	33.4
March ..	67.3	97.4	62.4	31.3	66.2	66.0	59.6	57.7	58.6	52.9	28.2
April ..	70.7	97.8	58.9	31.8	63.0	65.4	57.2	57.4	57.3	50.3	28.7
May ..	74.2	100.3	60.8	31.9	61.4	63.3	55.0	57.2	56.7	47.0	30.3
June ..	70.5	99.5	58.8	29.3	59.0	58.9	54.0	54.5	54.3	45.3	29.7
July ..	69.1	98.9	59.4	27.6	62.6	62.4	56.7	57.1	56.9	46.8	28.8
August ..	72.7	100.2	63.3	29.6	67.1	67.8	60.6	61.9	61.3	49.5	27.9
September ..	69.1	99.9	65.9	34.9	68.9	69.6	62.1	62.9	62.5	46.6	27.9
October ..	68.8	98.8	67.1	40.2	73.5	73.6	66.3	65.6	65.9	50.8	29.5
November ..	68.9	99.5	68.2	43.0	74.6	75.6	66.6	66.5	66.6	54.4	30.7
December ..	62.9	97.3	60.1	37.7	62.6	64.7	55.9	55.6	55.7	53.4	28.9
1991 Average ..	69.9	100.1	65.0	34.9	72.2	73.0	62.2	61.5	61.8	55.6	31.4
1992											
January ..	60.0	94.9	53.9	30.9	59.9	58.4	51.9	51.4	51.7	49.5	24.4
February ..	61.7	93.1	55.2	30.2	62.0	62.1	54.0	54.1	54.0	48.2	25.6
March ..	62.7	92.5	54.6	29.5	59.1	62.3	53.7	54.0	53.9	46.5	24.6
April ..	66.6	96.4	56.9	29.0	61.6	64.3	55.5	57.0	56.8	46.5	27.4
May ..	71.5	100.5	60.8	29.4	62.1	66.6	58.8	60.1	59.5	48.4	30.2
June ..	74.2	101.5	63.3	31.6	63.7	69.3	61.7	62.7	62.2	49.5	32.5
July ..	71.0	102.0	64.8	31.5	65.7	68.8	61.3	61.8	61.6	49.5	34.7
August ..	70.6	102.6	63.9	32.9	64.2	68.0	60.1	60.4	60.3	49.1	34.7
September ..	71.0	102.3	64.3	35.4	68.8	71.4	62.7	63.3	63.0	50.1	34.8
October ..	70.4	100.5	66.0	36.6	70.1	73.6	64.6	65.5	65.1	52.7	37.4
November ..	68.1	99.7	61.5	36.2	64.5	68.7	58.8	60.4	59.6	52.2	35.9
December ..	63.8	97.6	58.9	36.3	62.8	63.7	55.7	56.4	56.0	51.6	30.6
1992 Average ..	67.7	99.1	60.4	32.8	63.2	65.1	57.9	59.0	58.5	49.5	30.7
1993											
January ..	63.8	96.9	57.7	40.2	61.4	63.2	54.4	54.9	54.6	50.3	31.2
February ..	63.8	96.5	60.5	36.7	63.7	65.7	56.9	57.4	57.1	49.3	31.1
March ..	65.2	97.4	60.3	38.2	65.4	67.4	59.0	60.0	59.5	53.8	32.9
April ..	67.7	97.7	59.9	36.2	60.8	65.4	57.5	59.9	58.7	52.4	33.6
May ..	69.2	99.4	60.1	34.0	58.3	66.5	56.9	59.6	58.4	51.3	31.0
June ..	66.2	99.1	58.4	33.8	56.9	63.0	54.9	57.2	56.2	46.9	30.0
July ..	62.7	97.9	55.1	33.3	53.6	59.0	51.0	53.1	52.2	45.4	27.4
August ..	62.9	96.9	55.2	33.3	55.6	57.9	50.9	53.3	52.2	46.7	27.3

\* Includes No. 4 fuel oil and No. 4 diesel fuel.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward. Energy Information Administration Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

Figure 4. U.S. Refiner Wholesale Product Prices



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 5. U.S. Refiner Volumes of Petroleum Products for Resale**  
(Million Gallons per Day)

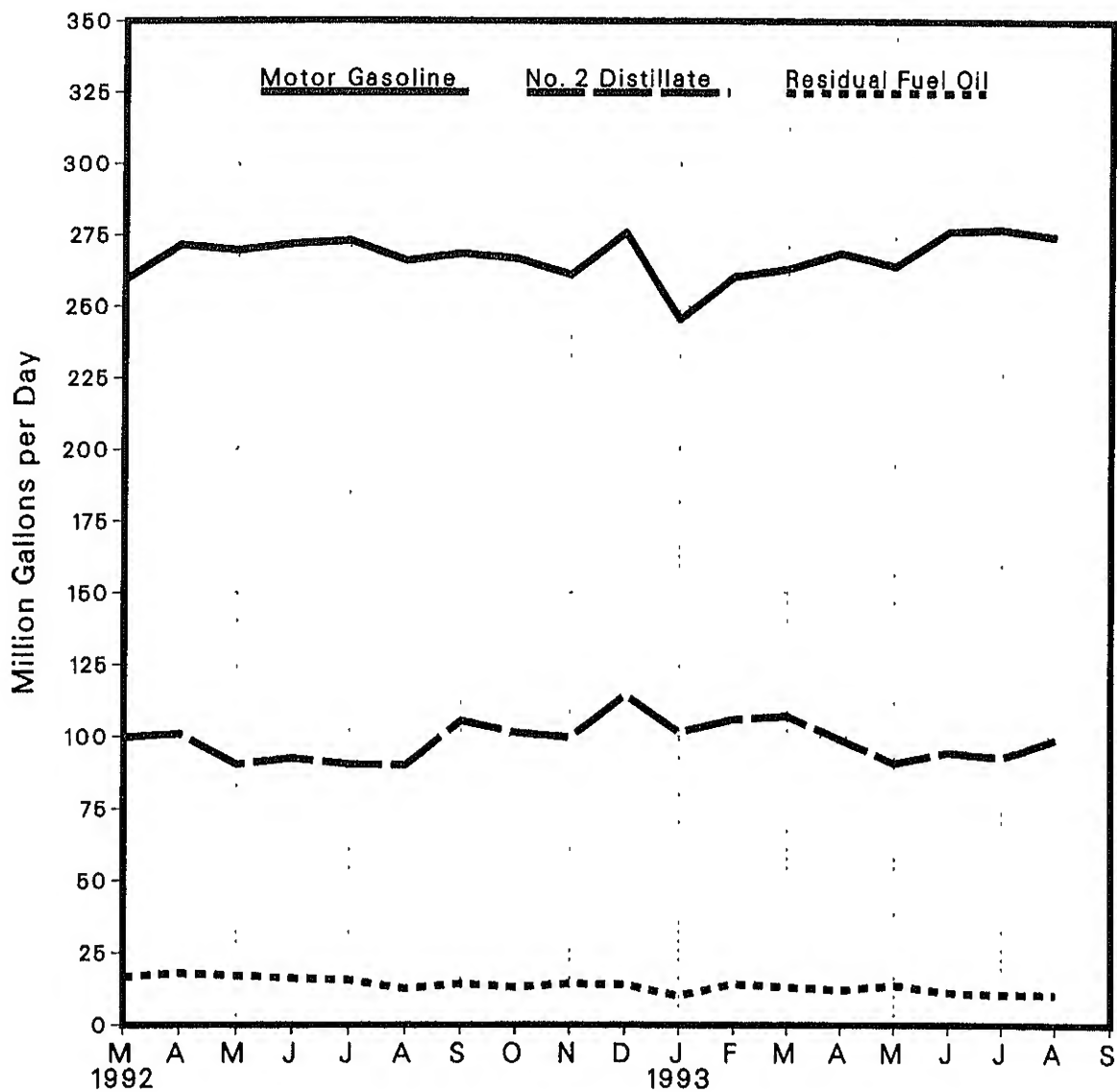
Year Month	Motor Gasoline	Aviation Gasoline	Kerosene- Type Jet Fuel	Propane (Consumer Grade)	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel <sup>a</sup>	Residual Fuel Oil
							No. 2 Fuel Oil	No. 2 Diesel Fuel	Total		
<b>1983 Average</b>	242.5	0.7	5.4	26.0	2.5	2.4	47.3	38.1	85.5	0.9	20.2
<b>1984 Average</b>	246.3	.8	6.6	26.7	2.2	2.6	51.4	42.8	94.2	1.7	21.3
<b>1985 Average</b>	256.9	.7	7.6	29.2	2.4	2.7	53.9	43.3	97.3	1.2	19.9
<b>1986 Average</b>	257.2	.7	10.1	26.3	2.4	2.4	54.5	46.6	101.1	1.2	18.7
<b>1987 Average</b>	257.2	.8	10.1	27.0	2.3	2.0	49.3	44.3	93.6	1.5	16.9
<b>1988 Average</b>	263.7	.7	10.0	27.7	2.7	2.6	50.1	47.8	97.9	1.2	18.9
<b>1989 Average</b>	260.7	.7	8.6	25.9	2.7	2.7	46.7	50.7	97.5	1.2	21.0
<b>1990 Average</b>	264.8	.7	8.8	25.5	2.2	2.4	45.9	51.9	97.8	.8	17.9
<b>1991</b>											
January	239.9	5	8.9	33.8	4.4	5.8	61.9	50.3	112.2	9	19.8
February	244.6	5	9.7	30.9	3.3	3.2	55.1	47.5	102.6	7	19.8
March	255.9	.6	8.4	24.8	2.0	1.7	49.3	52.3	101.7	6	15.4
April	274.3	7	8.7	21.8	9	9	43.8	52.3	96.1	.5	19.5
May	273.6	8	7.5	19.1	6	7	40.4	52.2	92.6	.2	20.4
June	268.4	9	9.3	19.9	7	8	41.8	53.3	95.1	2	18.9
July	274.1	.9	9.8	23.6	8	8	42.7	52.0	94.8	2	13.0
August	271.4	9	9.2	23.2	1.0	1.0	42.2	52.8	95.0	.2	18.4
September	257.6	.8	8.2	24.0	1.7	1.5	40.7	52.5	93.2	3	18.5
October	258.2	7	7.8	26.2	2.2	2.8	46.5	56.6	103.1	.4	14.4
November	253.7	5	8.1	27.5	3.2	4.8	43.5	47.0	90.5	.5	15.7
December	262.8	.5	9.0	30.1	3.9	4.5	54.5	48.3	102.8	.6	18.9
<b>1991 Average</b>	261.3	.7	8.7	25.4	2.1	2.4	46.9	51.5	98.3	.4	17.8
<b>1992</b>											
January	249.5	.5	7.4	33.9	4.6	4.6	61.7	47.9	109.6	.8	16.8
February	252.8	5	8.7	28.4	3.4	3.0	56.4	45.7	102.1	.7	13.6
March	259.5	.7	7.6	24.1	2.4	1.7	50.4	49.4	99.8	.7	16.7
April	271.5	6	7.7	21.6	1.2	.9	47.4	53.4	100.9	4	17.9
May	269.5	.8	7.2	19.6	.8	6	39.5	50.8	90.3	.3	17.1
June	271.7	.8	8.5	20.7	.9	6	41.9	50.4	92.4	.1	16.2
July	272.8	.9	7.9	22.9	6	.7	37.6	52.7	90.3	2	15.8
August	265.8	.8	7.7	24.2	1.1	1.1	39.2	50.8	90.0	.2	12.6
September	268.3	.7	7.9	25.6	1.8	1.9	52.8	52.6	105.4	2	14.3
October	266.6	6	9.1	27.4	2.6	2.4	45.5	55.8	101.3	.5	13.1
November	260.9	5	8.7	33.4	2.9	4.0	50.8	48.9	99.6	.5	14.3
December	275.8	4	8.2	37.9	4.2	6.0	63.6	50.8	114.4	8	14.0
<b>1992 Average</b>	265.7	.7	8.0	26.7	2.3	2.3	49.1	51.0	100.1	.4	16.0
<b>1993</b>											
January	245.4	.4	9.2	34.2	3.8	5.3	54.2	47.3	101.5	.6	10.1
February	260.3	.5	7.5	35.1	4.3	4.5	57.1	48.9	105.9	.7	14.2
March	263.0	.6	8.6	30.3	3.3	2.5	56.0	51.1	107.1	8	13.2
April	268.6	.6	7.4	21.8	1.3	.9	47.1	51.9	99.0	.4	12.1
May	264.0	7	7.2	19.0	.9	.6	40.1	50.7	90.8	.2	13.8
June	276.3	.8	7.2	23.3	8	7	42.3	52.4	94.6	2	11.2
July	277.0	.8	7.7	21.5	8	.6	39.5	53.3	92.8	1	10.6
August	274.4	.8	8.0	24.9	1.1	1.0	44.2	54.9	99.1	.1	10.5

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals and averages may not equal the sum of components due to rounding.

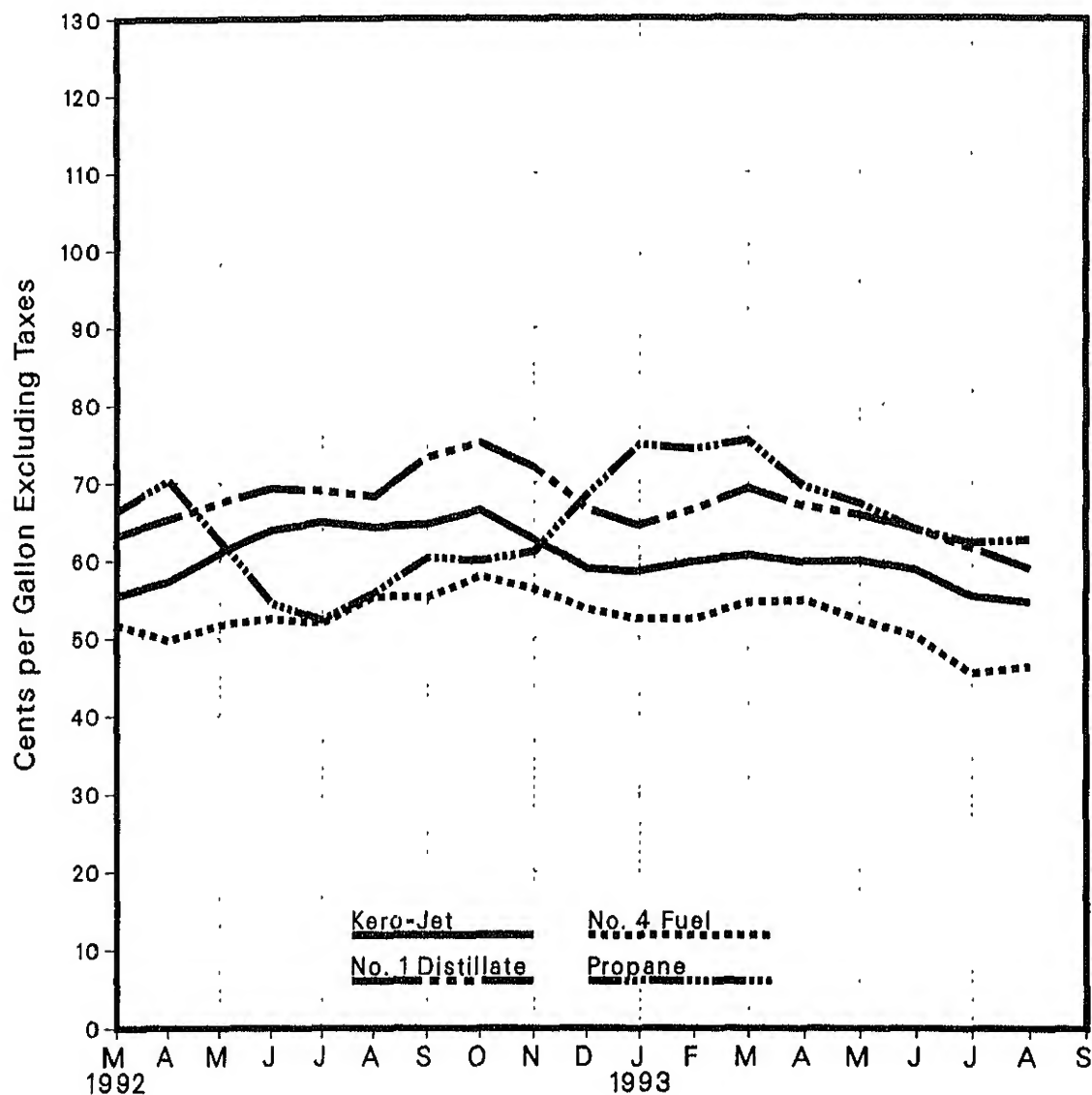
Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

Figure 5. U.S. Refiner Wholesale Product Volumes



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

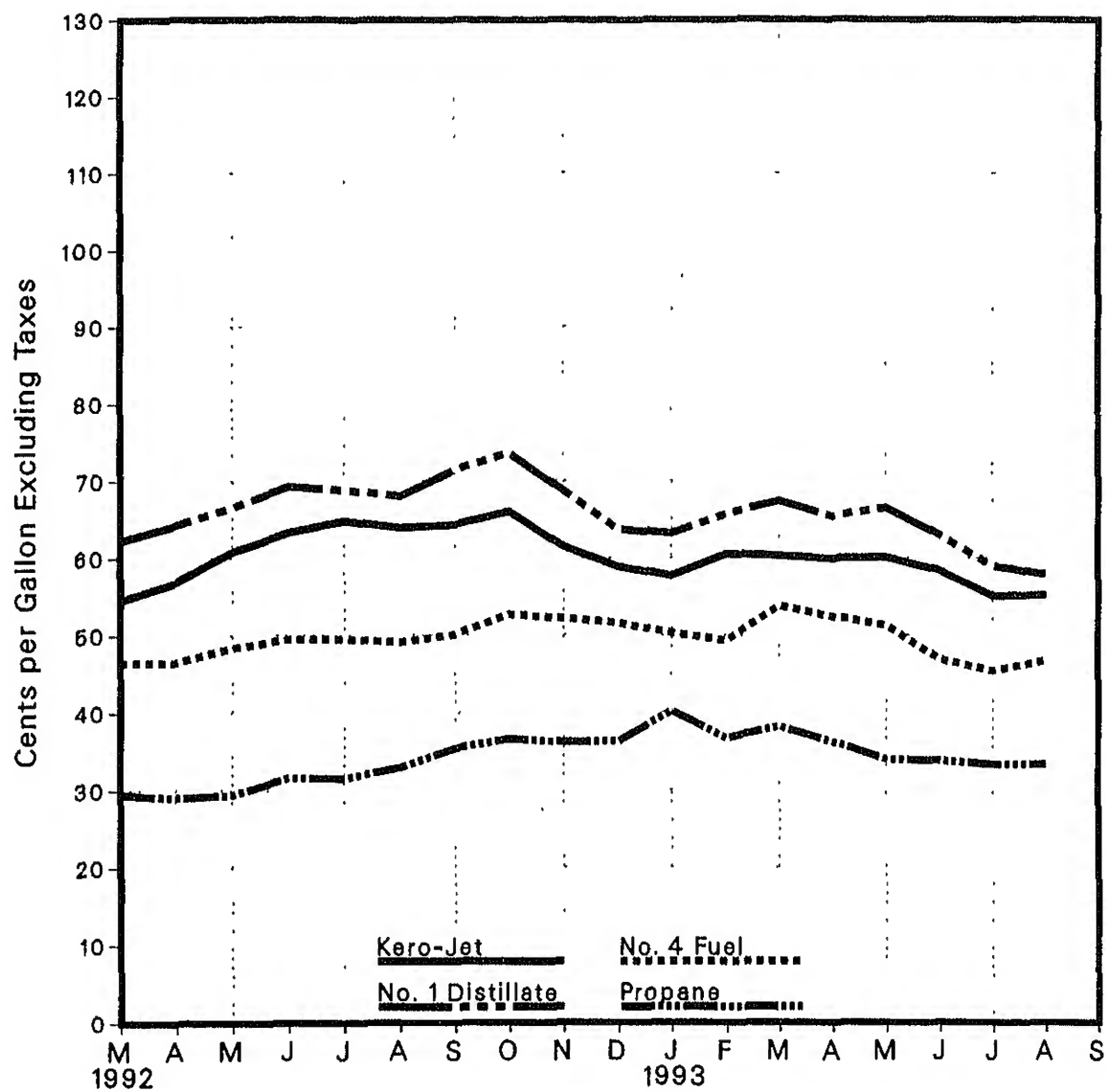
Figure 6. U.S. Refiner Retail Prices of Selected Products



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."



Figure 7. U.S. Refiner Wholesale Prices of Selected Products



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 6. U.S. Refiner Petroleum Product Prices to End Users by Seller**  
(Cents per Gallon Excluding Taxes)

Product	Major Refiners			Other Refiners			Average		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b>	77.0	78.2	82.8	74.2	75.8	80.9	76.3	77.6	82.3
Leaded Regular	72.8	74.6	83.6	83.7	84.4	89.8	76.2	77.7	85.6
Unleaded Regular	71.4	72.7	77.8	71.1	72.7	78.0	71.3	72.7	77.8
Unleaded Midgrade	81.3	82.5	86.7	78.1	79.6	84.3	80.6	81.9	86.2
Premium	90.6	91.4	95.8	85.5	87.3	93.2	89.5	90.5	95.3
<b>Aviation Gasoline</b>	100.0	100.8	107.3	91.3	91.9	93.0	98.8	99.7	105.7
<b>Kerosene-Type Jet Fuel</b>	54.4	55.2	64.1	55.8	56.3	64.9	54.6	55.3	64.2
<b>Propane (Consumer Grade)</b>	40.2	40.7	36.3	NA	NA	68.2	62.6	62.2	55.8
<b>Kerosene</b>	62.0	61.5	70.5	60.9	60.0	65.1	61.9	61.4	69.0
<b>No. 1 Distillate</b>	55.1	56.7	66.0	65.8	67.8	72.0	58.9	61.5	68.2
<b>No. 2 Distillate</b>	55.4	56.2	62.8	58.3	58.2	65.0	56.0	56.6	63.3
No. 2 Fuel Oil	53.6	53.7	61.6	58.2	55.5	65.6	54.6	54.1	62.3
No. 2 Diesel Fuel	55.6	56.5	63.0	58.3	58.5	64.9	56.2	56.9	63.4
<b>No. 4 Fuel<sup>a</sup></b>	45.6	44.9	55.4	52.4	53.4	54.4	46.3	45.4	55.9
<b>Residual Fuel Oil</b>	30.9	32.0	38.3	32.6	34.7	39.3	31.7	33.2	38.8
Sulfur Content not > 1 %	37.1	41.5	44.0	37.2	42.2	41.0	37.2	41.9	42.1
Sulfur Content > 1 %	27.9	28.2	36.7	29.1	29.0	37.7	28.4	28.5	37.0

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 7. U.S. Refiner Petroleum Product Prices for Resale by Seller**  
(Cents per Gallon Excluding Taxes)

Product	Major Refiners			Other Refiners			Average		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b>	64.3	64.3	71.9	57.7	56.8	65.4	62.9	62.7	70.6
Leaded Regular	66.4	66.1	75.7	64.4	64.5	73.2	65.8	66.9	74.9
Unleaded Regular	60.6	60.5	68.3	56.6	55.7	64.2	59.6	59.3	67.3
Unleaded Midgrade	66.5	66.8	73.7	60.3	58.7	67.4	66.1	66.1	73.3
Premium	73.8	73.9	81.6	63.0	62.4	71.3	72.4	72.5	80.3
<b>Aviation Gasoline</b>	98.4	100.0	103.8	86.6	85.2	91.6	96.9	97.9	102.6
<b>Kerosene-Type Jet Fuel</b>	55.9	56.0	64.3	54.1	53.4	62.8	55.2	55.1	63.9
<b>Propane (Consumer Grade)</b>	33.4	33.4	33.0	33.2	33.2	32.8	33.3	33.3	32.9
<b>Kerosene</b>	57.8	56.5	65.6	53.4	51.9	62.4	55.6	53.6	64.2
<b>No. 1 Distillate</b>	57.1	60.3	67.5	58.5	58.4	68.3	57.9	59.0	68.0
<b>No. 2 Distillate</b>	52.2	52.3	60.3	52.3	52.2	60.2	52.2	52.2	60.3
No. 2 Fuel Oil	50.9	51.1	60.0	51.0	50.9	60.1	50.9	51.0	60.1
No. 2 Diesel Fuel	53.2	53.3	60.5	53.3	52.9	60.3	53.3	53.1	60.4
<b>No. 4 Fuel<sup>a</sup></b>	W	W	W	45.1	43.9	47.9	46.7	45.4	49.1
<b>Residual Fuel Oil</b>	26.3	26.5	35.6	28.8	28.8	33.5	27.3	27.4	34.7
Sulfur Content not > 1 %	35.4	35.6	38.8	29.9	30.5	37.0	32.1	32.7	37.7
Sulfur Content > 1 %	23.0	23.4	34.6	26.8	27.1	31.1	24.0	24.6	33.2

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 8. U.S. Refiner Petroleum Product Volumes to End Users by Seller**  
(Thousand Gallons per Day)

Product	Major Refiners			Other Refiners			Total		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> .....	42,444	43,135	43,544	16,017	15,684	15,540	58,461	58,818	59,084
Leaded Regular .....	357	363	479	174	174	237	531	537	716
Unleaded Regular ...	26,051	26,458	27,253	11,466	11,366	11,520	37,518	37,824	38,774
Unleaded Midgrade .....	7,447	7,538	7,490	1,977	1,910	1,687	9,424	9,447	9,176
Premium .....	8,589	8,776	8,322	2,399	2,234	2,096	10,988	11,010	10,418
<b>Aviation Gasoline</b> . . . . .	198	216	211	31	30	26	229	247	237
<b>Kerosene-Type Jet Fuel</b> .....	37,207	37,225	36,744	5,371	5,912	5,389	42,578	43,137	42,132
<b>Propane (Consumer Grade)</b> ...	856	736	1,181	NA	NA	1,875	2,526	2,112	3,056
<b>Kerosene</b> ... ..	95	78	90	7	8	35	103	86	125
<b>No. 1 Distillate</b> .. ..	158	153	160	89	114	89	248	267	249
<b>No. 2 Distillate</b> .....	18,722	18,499	19,490	4,805	4,655	4,717	23,527	23,154	24,207
No. 2 Fuel Oil .....	2,065	2,023	2,123	517	538	483	2,582	2,561	2,606
No. 2 Diesel Fuel .....	16,657	16,476	17,368	4,288	4,117	4,234	20,945	20,593	21,601
<b>No. 4 Fuel*</b> .....	331	451	254	39	28	47	371	479	301
<b>Residual Fuel Oil</b> ... ..	8,744	8,461	10,537	7,602	6,643	8,330	16,347	15,104	18,867
Sulfur Content not > 1 % .....	2,873	2,430	2,344	3,239	2,873	4,158	6,112	5,302	6,501
Sulfur Content > 1 % .....	5,871	6,031	8,193	4,364	3,770	4,172	10,235	9,801	12,365

\* Includes No. 4 fuel oil and No. 4 diesel fuel.

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 9. U.S. Refiner Petroleum Product Volumes for Resale by Seller**  
(Thousand Gallons per Day)

Product	Major Refiners			Other Refiners			Total		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> .....	215,037	218,796	210,769	59,371	58,228	55,077	274,409	277,025	265,846
Leaded Regular .....	2,370	2,252	2,935	1,038	1,051	1,399	3,408	3,303	4,335
Unleaded Regular .....	137,969	141,076	137,182	48,828	48,231	44,967	186,798	189,308	182,149
Unleaded Midgrade .....	26,492	26,927	25,936	2,203	2,307	2,108	28,695	29,234	28,044
Premium .....	48,206	48,541	44,715	7,302	6,638	6,603	55,508	55,180	51,318
<b>Aviation Gasoline</b> . . . . .	716	706	752	106	118	87	822	824	838
<b>Kerosene-Type Jet Fuel</b> .....	4,903	4,950	5,455	3,104	2,799	2,286	8,007	7,749	7,741
<b>Propane (Consumer Grade)</b> .....	14,590	12,231	14,577	10,273	9,312	9,607	24,863	21,542	24,184
<b>Kerosene</b> .....	526	304	597	526	519	469	1,051	822	1,066
<b>No. 1 Distillate</b> .....	420	201	357	601	429	727	1,021	631	1,084
<b>No. 2 Distillate</b> .....	60,565	57,202	53,977	38,532	35,628	36,009	99,097	92,830	89,985
No. 2 Fuel Oil .....	27,745	26,919	24,275	16,439	12,613	14,935	44,184	39,532	39,211
No. 2 Diesel Fuel .....	32,820	30,283	29,701	22,093	23,015	21,073	54,913	53,298	50,775
<b>No. 4 Fuel*</b> .....	W	W	W	W	W	W	109	149	187
<b>Residual Fuel Oil</b> .....	6,350	6,346	6,845	4,135	4,250	5,723	10,485	10,597	12,568
Sulfur Content not > 1 % .....	1,692	1,613	1,593	2,648	2,076	2,375	4,337	3,688	3,968
Sulfur Content > 1 % .....	4,659	4,734	5,252	1,489	2,175	3,348	6,148	6,909	8,600

\* Includes No. 4 fuel oil and No. 4 diesel fuel.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 6. U.S. Refiner Petroleum Product Prices to End Users by Seller**  
(Cents per Gallon Excluding Taxes)

Product	Major Refiners			Other Refiners			Average		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> . . . . .	77.0	78.2	82.8	74.2	75.8	80.9	76.3	77.6	82.3
Leaded Regular	72.6	74.8	83.6	83.7	84.4	89.8	76.2	77.7	85.6
Unleaded Regular	71.4	72.7	77.8	71.1	72.7	78.0	71.3	72.7	77.8
Unleaded Midgrade	81.3	82.5	86.7	78.1	79.6	84.3	80.6	81.9	86.2
Premium	90.6	91.4	95.8	85.5	87.3	93.2	89.5	90.5	95.3
<b>Aviation Gasoline</b> . . . . .	100.0	100.8	107.3	91.3	91.9	93.0	98.8	99.7	105.7
<b>Kerosene-Type Jet Fuel</b>	54.4	55.2	64.1	55.8	56.3	64.9	54.6	55.3	64.2
<b>Propane (Consumer Grade)</b> . . .	40.2	40.7	36.3	NA	NA	68.2	62.6	62.2	55.8
<b>Kerosene</b> . . . . .	62.0	61.5	70.5	60.9	60.0	65.1	61.9	61.4	69.0
<b>No. 1 Distillate</b> . . . . .	55.1	56.7	66.0	65.8	67.8	72.0	58.9	61.5	68.2
<b>No. 2 Distillate</b> . . . . .	55.4	56.2	62.8	58.3	58.2	65.0	56.0	58.6	63.3
No. 2 Fuel Oil	53.6	53.7	61.6	58.2	55.5	65.6	54.6	54.1	62.3
No. 2 Diesel Fuel	55.6	56.5	63.0	58.3	58.5	64.9	56.2	56.9	63.4
<b>No. 4 Fuel<sup>a</sup></b> . . . . .	45.6	44.9	55.4	52.4	53.4	54.4	46.3	45.4	55.3
<b>Residual Fuel Oil</b> . . . . .	30.9	32.0	38.3	32.6	34.7	39.3	31.7	33.2	38.8
Sulfur Content not > 1 %	37.1	41.5	44.0	37.2	42.2	41.0	37.2	41.9	42.1
Sulfur Content > 1 %	27.9	28.2	36.7	29.1	29.0	37.7	28.4	28.5	37.0

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel

NA = Not available

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 7. U.S. Refiner Petroleum Product Prices for Resale by Seller**  
(Cents per Gallon Excluding Taxes)

Product	Major Refiners			Other Refiners			Average		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> . . . . .	64.3	64.3	71.9	57.7	56.8	65.4	62.9	62.7	70.6
Leaded Regular	66.4	68.1	75.7	64.4	64.5	73.2	65.8	66.9	74.9
Unleaded Regular	60.6	60.5	68.3	56.6	55.7	64.2	59.6	59.3	67.3
Unleaded Midgrade	66.5	66.8	73.7	60.3	58.7	67.4	66.1	66.1	73.3
Premium	73.8	73.9	81.6	63.0	62.4	71.3	72.4	72.5	80.3
<b>Aviation Gasoline</b> . . . . .	98.4	100.0	103.8	86.6	85.2	91.6	96.9	97.9	102.6
<b>Kerosene-Type Jet Fuel</b> . . . . .	55.9	56.0	64.3	54.1	53.4	62.8	55.2	55.1	63.9
<b>Propane (Consumer Grade)</b> . . . .	33.4	33.4	33.0	33.2	33.2	32.8	33.3	33.3	32.9
<b>Kerosene</b> . . . . .	57.8	56.5	65.6	53.4	51.9	62.4	55.6	53.6	64.2
<b>No. 1 Distillate</b> . . . . .	57.1	60.3	67.5	58.5	58.4	68.3	57.9	59.0	68.0
<b>No. 2 Distillate</b> . . . . .	52.2	52.3	60.3	52.3	52.2	60.2	52.2	52.2	60.3
No. 2 Fuel Oil	50.9	51.1	60.0	51.0	50.9	60.1	50.9	51.0	60.1
No. 2 Diesel Fuel	53.2	53.3	60.5	53.3	52.9	60.3	53.3	53.1	60.4
<b>No. 4 Fuel<sup>a</sup></b> . . . . .	W	W	W	45.1	43.9	47.9	46.7	45.4	49.1
<b>Residual Fuel Oil</b> . . . . .	26.3	26.5	35.6	28.8	28.8	33.5	27.3	27.4	34.7
Sulfur Content not > 1 %	35.4	35.6	38.8	29.9	30.5	37.0	32.1	32.7	37.7
Sulfur Content > 1 %	23.0	23.4	34.6	26.8	27.1	31.1	24.0	24.6	33.2

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 8. U.S. Refiner Petroleum Product Volumes to End Users by Seller**  
(Thousand Gallons per Day)

Product	Major Refiners			Other Refiners			Total		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> .....	42,444	43,135	43,544	16,017	15,684	15,540	58,461	58,818	59,084
Leaded Regular .....	357	363	479	174	174	237	531	537	716
Unleaded Regular .....	26,051	26,458	27,253	11,466	11,366	11,520	37,518	37,824	38,774
Unleaded Midgrade .....	7,447	7,538	7,490	1,977	1,910	1,687	9,424	9,447	9,178
Premium .....	8,589	8,776	8,322	2,399	2,234	2,096	10,988	11,010	10,418
<b>Aviation Gasoline</b> .....	198	216	211	31	30	26	229	247	237
<b>Kerosene-Type Jet Fuel</b> ..	37,207	37,225	36,744	5,371	5,912	5,389	42,578	43,137	42,132
<b>Propane (Consumer Grade)</b>	856	736	1,181	NA	NA	1,875	2,526	2,112	3,056
<b>Kerosene</b> .. .....	95	78	90	7	8	35	103	86	125
<b>No. 1 Distillate</b> .....	158	153	160	89	114	89	248	267	249
<b>No. 2 Distillate</b> .....	18,722	18,499	19,490	4,805	4,655	4,717	23,527	23,154	24,207
No. 2 Fuel Oil .....	2,065	2,023	2,123	517	538	483	2,582	2,561	2,606
No. 2 Diesel Fuel .....	16,657	16,476	17,368	4,288	4,117	4,234	20,945	20,593	21,601
<b>No. 4 Fuel<sup>a</sup></b> .....	331	451	254	39	28	47	371	479	301
<b>Residual Fuel Oil</b> .....	8,744	8,461	10,537	7,602	6,643	8,330	16,347	15,104	18,867
Sulfur Content not > 1 % .....	2,873	2,430	2,344	3,239	2,873	4,158	6,112	5,302	6,501
Sulfur Content > 1 % .....	5,871	6,031	8,193	4,364	3,770	4,172	10,235	9,801	12,365

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

NA = Not available.

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Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 9. U.S. Refiner Petroleum Product Volumes for Resale by Seller**  
(Thousand Gallons per Day)

Product	Major Refiners			Other Refiners			Total		
	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992	Aug. 1993	July 1993	Aug. 1992
<b>Motor Gasoline</b> .....	215,037	218,796	210,769	59,371	58,228	55,077	274,409	277,025	265,846
Leaded Regular .....	2,370	2,252	2,935	1,038	1,051	1,399	3,408	3,303	4,335
Unleaded Regular .....	137,969	141,076	137,182	48,828	48,231	44,967	186,798	189,308	182,149
Unleaded Midgrade .....	26,492	26,927	25,936	2,203	2,307	2,108	28,695	29,234	28,044
Premium .....	48,206	48,541	44,715	7,302	6,638	6,603	55,508	55,180	51,318
<b>Aviation Gasoline</b> .....	716	706	752	106	118	87	822	824	838
<b>Kerosene-Type Jet Fuel</b> .....	4,903	4,950	5,455	3,104	2,799	2,286	8,007	7,749	7,741
<b>Propane (Consumer Grade)</b> .....	14,590	12,231	14,577	10,273	9,312	9,607	24,863	21,542	24,184
<b>Kerosene</b> .....	526	304	597	526	519	469	1,051	822	1,066
<b>No. 1 Distillate</b> .....	420	201	357	601	429	727	1,021	631	1,084
<b>No. 2 Distillate</b> .....	60,585	57,202	53,977	38,532	35,628	36,009	99,097	92,830	89,985
No. 2 Fuel Oil .....	27,745	26,919	24,275	16,439	12,613	14,935	44,184	39,532	39,211
No. 2 Diesel Fuel .....	32,820	30,283	29,701	22,093	23,015	21,073	54,913	53,298	50,775
<b>No. 4 Fuel<sup>a</sup></b> .....	W	W	W	W	W	W	109	149	187
<b>Residual Fuel Oil</b> .....	6,350	6,346	6,845	4,135	4,250	5,723	10,485	10,597	12,568
Sulfur Content not > 1 % .....	1,692	1,613	1,593	2,646	2,076	2,375	4,337	3,688	3,968
Sulfur Content > 1 % .....	4,659	4,734	5,252	1,489	2,175	3,348	6,148	6,909	8,600

<sup>a</sup> Includes No. 4 fuel oil and No. 4 diesel fuel.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 10. U.S. Refiner Total Motor Gasoline Prices, Volumes, and Percentages by Seller**

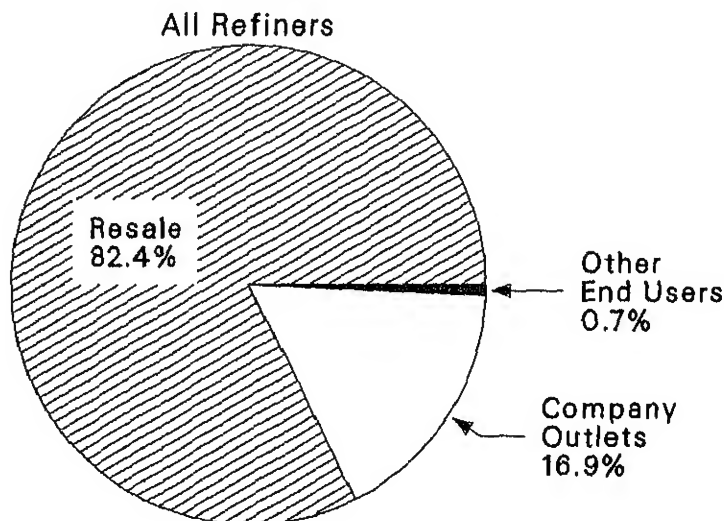
Sales Type Month	Major Refiners			Other Refiners			Total		
	Average Price (cents per gallon)	Volume (million gallons)	Percentage (by sales type)	Average Price (cents per gallon)	Volume (million gallons)	Percentage (by sales type)	Average Price (cents per gallon)	Volume (million gallons)	Percentage (by sales type)
<b>All Sales</b>									
August 1993	66.4	7,982	100.0	61.2	2,337	100.0	65.3	10,319	100.0
July 1993	66.6	8,120	100.0	60.8	2,291	100.0	65.3	10,411	100.0
August 1992	73.8	7,884	100.0	68.8	2,189	100.0	72.7	10,073	100.0
<b>Sales to End Users</b>									
August 1993	77.0	1,316	16.5	74.2	497	21.2	76.3	1,812	17.6
July 1993	78.2	1,337	16.5	75.8	486	21.2	77.6	1,823	17.5
August 1992	82.8	1,350	17.1	80.9	482	22.0	82.3	1,832	18.2
<b>Through Company Outlets</b>									
August 1993	77.6	1,262	15.8	74.6	479	20.5	76.8	1,741	16.9
July 1993	78.8	1,288	15.9	76.2	470	20.5	78.1	1,758	16.9
August 1992	83.3	1,297	16.4	81.2	462	21.1	82.8	1,759	17.5
<b>Other End Users</b>									
August 1993	63.1	54	7	63.2	17	7	63.1	71	.7
July 1993	63.8	49	6	62.4	16	7	63.4	65	.6
August 1992	70.2	53	7	72.7	20	.9	70.9	73	7
<b>Sales for Resale</b>									
August 1993	64.3	6,666	83.5	57.7	1,841	78.8	62.9	8,507	82.4
July 1993	64.3	6,783	83.5	56.8	1,805	78.8	62.7	8,588	82.5
August 1992	71.9	6,534	82.9	65.4	1,707	78.0	70.6	8,241	81.8

Note: Values shown represent the percentage of major refiners (100 percent) or other refiners and gas plant operators (100 percent) sales by sales type. The sum of sales to end users and sales for resale is 100 percent for each seller type.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals or averages may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Figure 8. Percentages of Refiner Total Motor Gasoline Sales, U.S. Average**



Source: Energy Information Administration, Form EIA-782A, "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report," providing August 1993 data.

**Table 11. U.S. Refiner Motor Gasoline Prices by Grade and Sales Type**  
(Cents per Gallon Excluding Taxes)

Year Month	Leaded Regular			Unleaded Regular			Unleaded Midgrade			Premium		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
1983 Average .....	91.2	88.1	85.0	98.0	91.5	89.5	NA	NA	NA	108.0	96.1	96.4
1984 Average .....	85.1	82.8	79.5	92.2	86.5	84.2	NA	NA	NA	102.1	93.7	91.6
1985 Average .....	84.6	82.0	79.3	92.5	86.1	84.3	NA	NA	NA	103.0	92.8	92.2
1986 Average ..	57.8	54.4	50.1	62.4	54.9	52.2	NA	NA	NA	74.8	63.0	61.0
1987 Average ..	62.3	57.4	56.5	65.9	58.4	56.9	NA	NA	NA	79.0	65.4	67.1
1988 Average ..	62.4	55.5	54.8	64.9	55.0	54.8	NA	NA	NA	79.4	64.9	67.2
1989 Average ..	71.8	64.4	63.1	72.0	62.9	61.8	79.6	69.5	68.6	87.4	73.7	74.9
1990 Average ...	83.4	76.8	75.4	85.3	77.5	75.8	92.3	84.0	81.4	99.0	87.3	87.4
<b>1991</b>												
January ..	86.6	75.8	75.1	85.9	76.2	73.5	93.2	81.1	79.2	100.6	86.2	85.5
February .....	76.2	66.7	65.2	76.5	68.6	65.5	83.7	73.0	71.2	90.9	77.6	77.4
March .....	66.1	63.4	59.2	70.9	67.0	65.1	78.5	70.4	70.7	85.0	75.2	75.5
April ...	66.5	67.3	62.4	73.9	70.5	68.6	82.2	74.8	74.1	88.3	78.8	79.1
May ...	72.0	73.2	67.6	78.9	73.9	71.7	87.3	78.5	77.7	93.5	82.8	83.4
June ...	72.7	67.3	65.3	78.8	70.5	67.6	87.3	74.4	74.2	93.3	79.2	80.4
July .....	68.5	66.6	62.9	75.5	68.5	66.3	84.6	72.5	72.6	90.6	76.9	78.6
August ..	70.3	70.8	67.2	77.8	72.1	69.9	86.8	76.0	76.1	92.9	80.4	81.9
September .....	72.0	69.3	67.6	76.7	68.8	66.0	85.7	73.4	72.4	91.9	77.9	79.2
October .....	70.4	68.3	66.1	74.4	67.8	65.9	83.1	70.9	71.7	89.8	76.1	78.2
November .....	70.1	70.2	66.3	75.6	68.2	66.9	84.1	73.6	73.0	90.6	76.9	79.3
December .....	69.5	66.2	62.0	72.3	61.6	59.5	80.5	67.0	66.7	88.1	70.0	73.0
1991 Average .....	71.7	69.0	65.7	76.4	69.6	67.2	84.7	73.8	73.3	91.2	78.2	79.2
<b>1992</b>												
January .....	67.2	63.6	56.2	67.6	57.3	56.5	76.8	60.7	63.7	85.5	66.7	70.2
February .....	66.6	64.9	58.5	66.4	59.7	58.5	75.4	61.2	65.0	84.5	69.1	71.6
March .....	68.3	NA	60.6	67.2	61.2	59.7	76.1	63.6	65.2	85.0	70.3	71.9
April .....	72.6	70.1	65.8	70.9	65.3	63.7	79.6	68.9	68.8	88.3	74.3	75.4
May .....	80.8	76.7	73.2	76.7	70.4	68.5	85.0	74.6	73.8	93.7	80.4	80.6
June ..	85.1	79.1	76.6	80.7	72.9	71.2	88.7	76.7	76.7	97.5	82.4	83.3
July ..	86.9	78.4	77.3	79.4	70.3	67.7	87.7	73.3	73.7	96.8	79.2	80.6
August .....	85.7	77.0	74.9	78.2	69.0	67.3	86.6	72.4	73.3	95.9	78.2	80.3
September .....	83.5	75.8	73.8	78.3	70.5	67.8	86.8	74.1	74.0	95.8	79.8	80.9
October .....	84.0	77.1	73.1	77.3	69.2	67.1	85.5	72.9	73.4	94.7	78.3	80.2
November .....	84.2	NA	71.7	77.4	67.6	64.4	85.7	70.9	72.2	95.2	76.5	78.9
December .....	81.0	73.8	65.2	74.3	62.7	60.0	82.9	66.1	68.2	92.5	71.9	74.4
1992 Average .....	78.5	74.2	69.3	74.5	66.3	64.4	82.6	69.1	70.7	91.3	75.6	77.3
<b>1993</b>												
January ..	78.4	70.6	63.3	72.6	61.6	60.2	81.6	66.1	68.1	90.6	70.9	74.2
February ...	75.9	71.2	64.4	71.9	62.1	60.4	80.8	66.4	67.5	88.6	71.7	73.3
March .....	71.6	72.6	63.9	71.5	62.9	62.0	80.7	67.3	68.7	88.3	71.6	74.7
April .....	73.0	76.4	66.7	73.5	65.6	64.6	82.9	70.0	70.8	91.7	75.1	76.7
May .....	77.0	78.5	69.4	75.8	67.8	66.1	84.9	72.3	72.3	93.7	77.9	78.4
June ...	78.2	77.7	69.5	75.6	66.6	62.9	84.6	69.9	69.7	93.4	75.1	76.0
July .....	77.8	75.3	66.9	73.2	61.3	59.3	82.4	65.5	66.1	91.2	70.8	72.5
August .....	76.2	74.4	65.8	71.8	61.1	59.6	81.1	64.9	66.1	90.2	70.2	72.4

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 12. U.S. Refiner Motor Gasoline Volumes by Grade and Sales Type**  
(Million Gallons per Day)

Year Month	Leaded Regular			Unleaded Regular			Unleaded Midgrade			Premium		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
1983 Average . . . . .	17.3	4.1	115.4	20.0	3.6	98.3	NA	NA	NA	5.0	1.2	28.7
1984 Average . . . . .	17.5	3.1	105.8	24.3	3.5	106.8	NA	NA	NA	8.5	.7	33.7
1985 Average . . . . .	15.0	2.7	99.2	26.2	3.6	119.7	NA	NA	NA	9.2	.7	38.0
1986 Average . . . . .	14.4	2.3	84.9	30.9	3.9	128.1	NA	NA	NA	9.0	.9	45.0
1987 Average . . . . .	11.8	1.4	62.3	32.7	3.4	141.9	NA	NA	NA	11.2	.5	53.0
1988 Average . . . . .	8.7	.7	47.7	34.2	3.1	153.6	NA	NA	NA	13.8	.6	62.4
1989 Average . . . . .	4.7	.4	27.8	34.3	2.5	155.7	4.9	0.2	16.4	13.5	.7	60.8
1990 Average . . . . .	2.1	.1	13.6	36.7	2.1	174.5	7.4	.2	23.1	11.2	.5	53.7
1991												
January . . . . .	1.6	.1	9.0	36.5	2.0	168.2	7.0	.3	20.8	9.0	.4	42.0
February . . . . .	1.7	.1	8.3	38.1	1.7	172.2	7.4	.2	20.9	10.0	.3	43.2
March . . . . .	1.7	.0	9.0	39.1	1.9	178.9	7.6	.3	21.9	10.5	.4	46.0
April . . . . .	1.8	.1	9.9	39.2	2.2	193.3	7.7	.2	23.3	10.3	.4	47.8
May . . . . .	1.8	.1	9.4	39.4	2.2	191.2	7.9	.3	24.4	10.2	.4	48.6
June . . . . .	1.8	.1	9.5	39.8	2.0	185.3	8.1	.3	24.4	10.8	.4	49.2
July . . . . .	1.8	.0	9.8	38.9	2.0	187.9	8.2	.3	25.3	11.0	.4	51.0
August . . . . .	1.8	.0	9.6	39.2	2.0	185.3	8.1	.3	25.4	10.8	.4	51.0
September . . . . .	1.7	.0	8.3	37.5	2.0	177.8	7.9	.2	23.1	10.6	.4	48.3
October . . . . .	1.5	.1	8.2	37.9	2.1	175.1	8.1	.3	24.0	10.8	.4	50.9
November . . . . .	1.3	.0	6.2	37.1	2.1	173.9	8.4	.2	24.3	10.9	.4	49.3
December . . . . .	1.1	.0	4.4	37.5	1.9	181.1	9.0	.2	25.9	11.2	.4	51.4
1991 Average . . . . .	1.6	.1	8.5	38.4	2.0	180.9	7.9	.3	23.7	10.5	.4	48.3
1992												
January . . . . .	.7	.0	3.7	34.4	1.9	170.2	8.4	.3	25.9	10.3	.4	49.7
February . . . . .	.7	.0	3.8	35.5	1.9	172.8	8.7	.4	26.3	10.7	.4	49.9
March . . . . .	.8	.0	4.0	36.3	2.0	177.8	8.9	.4	26.8	10.8	.4	50.9
April . . . . .	.7	.0	4.4	36.7	2.0	185.6	9.0	.3	27.7	10.8	.4	53.8
May . . . . .	.7	.0	4.3	36.8	1.9	184.9	8.9	.3	27.4	10.5	.4	52.9
June . . . . .	.8	.0	4.6	37.8	1.9	186.6	9.0	.3	28.1	10.2	.4	52.4
July . . . . .	.7	.0	4.4	37.5	1.8	186.8	9.1	.3	28.8	10.5	.4	52.8
August . . . . .	.7	.0	4.3	37.1	1.7	182.1	8.9	.3	28.0	10.0	.4	51.3
September . . . . .	.7	.0	4.1	37.0	1.7	187.2	8.7	.3	27.4	9.8	.4	49.6
October . . . . .	.7	.0	3.9	37.0	1.7	182.8	8.9	.3	28.0	10.1	.4	51.9
November . . . . .	.6	.0	3.3	35.6	1.6	179.9	8.6	.3	27.0	9.8	.4	50.6
December . . . . .	.6	.0	3.1	36.9	1.6	189.5	9.1	.3	28.7	10.4	.4	54.5
1992 Average . . . . .	.7	.0	4.0	36.6	1.8	182.5	8.8	.3	27.5	10.4	.4	51.8
1993												
January . . . . .	.5	.0	2.8	33.4	1.5	169.1	8.3	.3	25.5	9.6	.3	48.1
February . . . . .	.6	.0	2.9	35.1	1.7	178.6	8.7	.3	26.9	10.6	.4	51.8
March . . . . .	.6	.0	3.1	35.4	1.8	182.3	8.7	.3	27.2	10.5	.4	50.4
April . . . . .	.6	.0	3.3	36.3	1.8	184.7	8.8	.3	28.0	10.0	.4	52.8
May . . . . .	.5	.0	3.3	35.9	1.7	181.7	8.8	.3	27.5	9.9	.4	51.6
June . . . . .	.6	.0	3.4	37.8	1.8	190.8	9.2	.3	28.4	10.5	.4	53.7
July . . . . .	.5	.0	3.3	36.3	1.5	189.3	9.2	.3	29.2	10.7	.4	55.2
August . . . . .	.5	.0	3.4	35.9	1.6	186.8	9.1	.3	28.7	10.6	.4	55.5

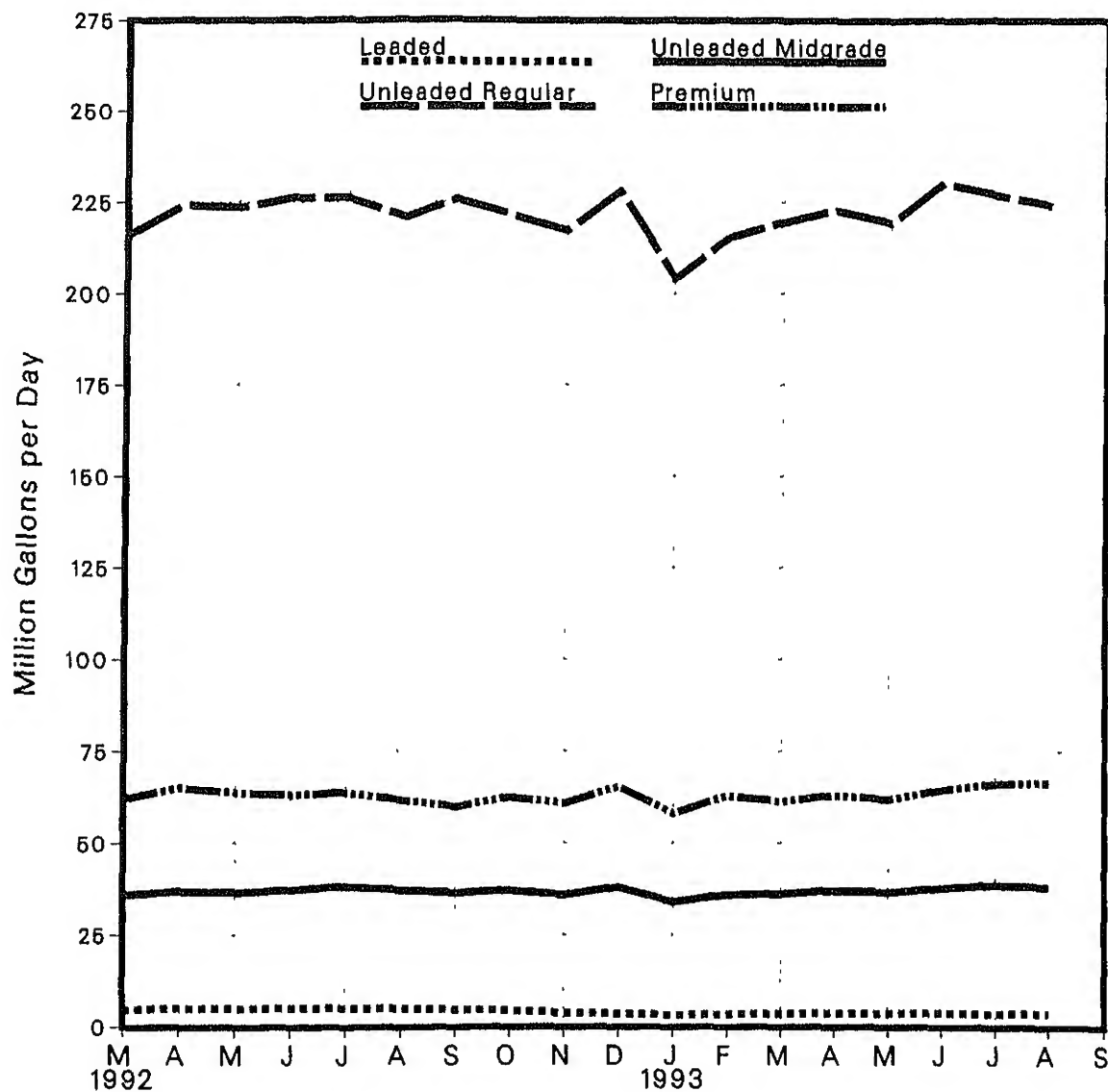
NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals and averages may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."



Figure 9. U.S. Refiner Total Motor Gasoline Sales Volumes



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 13. U.S. Refiner Total Motor Gasoline Prices by Seller**  
(Cents per Gallon Excluding Taxes)

Year Month	Major Refiners			Other Refiners			Average		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
1978 Average	49.4	46.2	43.8	48.2	45.8	42.1	48.9	46.1	43.4
1979 Average	72.8	68.0	64.3	71.0	67.5	61.8	72.1	67.9	63.7
1980 Average	105.6	98.7	95.1	103.0	97.8	91.3	104.6	98.5	94.1
1981 Average	117.0	109.4	107.5	114.2	108.4	103.2	115.9	109.2	106.4
1982 Average	108.2	101.1	98.3	105.6	100.2	94.3	107.2	100.9	97.3
1983 Average	97.0	90.6	89.0	95.2	89.7	85.6	96.4	90.5	88.2
1984 Average	92.0	85.7	84.2	90.0	84.9	80.2	91.4	85.6	83.2
1985 Average	93.0	85.7	84.7	89.8	83.5	79.9	92.1	85.2	83.5
1986 Average	64.1	57.6	54.4	61.2	52.7	48.7	63.2	55.8	53.1
1987 Average	66.7	59.2	60.1	65.3	55.2	55.0	67.8	57.5	58.9
1988 Average	69.2	57.8	59.3	65.2	54.1	52.7	68.1	56.4	57.7
1989 Average	77.1	66.2	66.8	73.5	63.3	60.8	76.3	65.2	65.4
1990 Average	89.4	79.6	80.0	87.0	80.0	74.0	88.8	79.7	78.6
1991									
January	89.8	78.0	77.4	88.0	78.5	72.0	89.3	78.1	76.2
February	80.5	70.3	69.0	78.4	70.1	64.4	79.9	70.3	68.0
March	74.7	68.6	67.6	72.8	68.4	65.7	74.2	68.5	67.3
April	77.6	72.3	71.0	76.3	71.4	69.5	77.3	72.1	70.7
May	82.8	75.8	75.0	81.0	75.2	71.2	82.3	75.7	74.2
June	82.9	72.0	71.7	80.6	72.1	66.2	82.3	72.1	70.5
July	79.9	69.9	69.9	77.7	70.7	66.0	79.3	70.1	69.1
August	82.1	73.5	73.5	79.5	74.4	69.5	81.4	73.7	72.7
September	81.2	70.8	70.4	79.0	69.9	64.6	80.6	70.6	69.1
October	78.8	69.1	69.7	77.2	70.3	65.3	78.4	69.4	68.8
November	79.7	70.2	71.0	78.9	69.8	65.9	79.5	70.1	69.9
December	76.9	63.5	64.4	75.4	63.4	57.2	76.5	63.5	62.9
1991 Average	80.5	71.3	70.9	78.7	71.1	66.5	80.0	71.3	69.9
1992									
January	73.5	58.8	61.5	69.7	60.4	54.3	72.5	59.2	60.0
February	72.2	61.4	63.0	68.8	61.0	56.9	71.3	61.3	61.7
March	72.8	62.8	63.7	69.7	63.7	59.2	72.0	63.0	62.7
April	78.2	67.4	67.4	73.8	66.5	63.7	75.6	67.1	66.6
May	81.9	72.5	72.5	78.4	72.2	67.8	81.2	72.5	71.5
June	85.7	74.7	75.3	83.1	75.3	70.0	85.0	74.9	74.2
July	84.5	71.3	72.3	82.6	74.2	65.7	84.0	72.1	71.0
August	83.3	70.2	71.9	81.2	72.7	65.4	82.8	70.9	70.6
September	83.2	71.9	72.3	81.5	74.2	66.2	82.8	72.5	71.0
October	82.3	71.1	72.0	80.4	71.3	64.9	81.8	71.1	70.4
November	82.7	69.4	70.4	80.0	69.8	60.2	82.0	69.5	68.1
December	79.9	64.5	66.0	76.6	65.2	55.8	79.0	64.6	63.8
1992 Average	79.5	68.0	69.1	77.3	68.7	62.5	78.9	68.2	67.7
1993									
January	78.1	63.7	65.7	75.3	63.3	56.6	77.4	63.6	63.8
February	77.4	64.5	65.5	74.4	63.3	57.4	76.6	64.2	63.8
March	76.9	65.0	66.5	74.3	64.4	60.2	76.2	64.8	65.2
April	78.8	68.1	68.7	76.7	66.5	63.6	78.3	67.7	67.7
May	81.2	70.4	70.4	78.7	69.0	64.7	80.5	70.0	69.2
June	80.8	68.0	67.7	78.8	69.2	60.8	80.2	68.3	66.2
July	78.8	63.8	64.3	76.2	62.4	56.8	78.1	63.4	62.7
August	77.6	63.1	64.3	74.6	63.2	57.7	76.8	63.1	62.9

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward; Energy Information Administration Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.

**Table 14. U.S. Refiner Total Motor Gasoline Volumes by Seller**  
(Million Gallons per Day)

Year Month	Major Refiners			Other Refiners			Total		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>1983 Average ....</b>	27.1	8.0	185.6	15.1	0.8	56.8	42.3	8.8	242.5
<b>1984 Average ....</b>	34.5	6.3	188.2	15.8	1.0	58.1	50.3	7.3	246.3
<b>1985 Average ...</b>	35.8	5.4	194.7	14.7	1.6	62.1	50.5	7.0	256.9
<b>1986 Average ...</b>	38.3	4.5	196.2	16.0	2.7	61.1	54.2	7.1	257.2
<b>1987 Average ..</b>	40.2	3.1	198.5	15.5	2.2	58.7	55.7	5.3	257.2
<b>1988 Average ..</b>	40.9	2.8	199.9	15.8	1.6	63.8	56.7	4.4	263.7
<b>1989 Average .</b>	44.1	2.4	200.9	13.4	1.3	59.8	57.5	3.8	260.7
<b>1990 Average ..</b>	43.2	2.4	204.7	14.2	.6	60.1	57.4	3.0	264.8
<b>1991</b>									
January .....	40.0	2.1	185.7	14.2	.6	54.3	54.2	2.8	239.9
February .....	42.4	1.7	191.1	14.7	.6	53.5	57.1	2.3	244.6
March .....	44.1	2.0	204.0	14.8	.7	51.9	58.9	2.6	255.9
April .....	43.5	2.2	214.0	15.5	.8	60.3	59.0	3.0	274.3
May .....	43.9	2.4	214.2	15.3	.7	59.4	59.2	3.0	273.6
June .....	45.2	2.1	210.5	15.4	.7	57.9	60.6	2.8	268.4
July .....	44.1	2.0	216.9	15.7	.8	57.2	59.8	2.8	274.1
August .....	44.4	2.0	213.2	15.4	.7	58.2	59.8	2.7	271.4
September ..	42.9	1.9	199.2	14.8	.7	58.3	57.7	2.6	257.6
October .....	42.9	2.1	206.0	15.3	.8	62.1	58.3	2.9	258.2
November .	43.2	2.0	199.4	14.4	.8	54.4	57.7	2.8	253.7
December .....	44.4	2.0	208.1	14.5	.7	54.8	58.9	2.6	262.8
<b>1991 Average ...</b>	<b>43.4</b>	<b>2.0</b>	<b>205.3</b>	<b>15.0</b>	<b>.7</b>	<b>56.0</b>	<b>58.4</b>	<b>2.7</b>	<b>261.3</b>
<b>1992</b>									
January .....	39.3	1.9	197.4	14.5	.7	52.2	53.8	2.6	249.5
February .....	40.9	2.0	199.1	14.7	.7	53.8	55.6	2.7	252.8
March ...	42.1	2.1	200.7	14.7	.7	58.8	56.8	2.8	259.5
April .....	41.8	2.0	212.4	15.5	.7	59.0	57.2	2.7	271.5
May .....	41.9	2.0	211.2	15.0	.7	58.3	57.0	2.6	269.5
June .....	42.6	2.0	214.3	15.1	.7	57.4	57.7	2.6	271.7
July .....	42.3	1.8	216.2	15.6	.7	56.6	57.9	2.5	272.8
August .....	41.8	1.7	210.8	14.9	.6	55.1	56.7	2.3	265.8
September .....	41.6	1.7	210.6	14.6	.6	57.7	56.2	2.4	268.3
October .....	41.2	1.8	206.8	15.3	.7	59.8	56.6	2.4	266.6
November .....	40.0	1.6	202.6	14.6	.6	58.4	54.6	2.3	260.9
December ..	41.9	1.7	215.0	15.1	.6	60.8	57.1	2.2	275.8
<b>1992 Average .....</b>	<b>41.5</b>	<b>1.9</b>	<b>207.8</b>	<b>15.0</b>	<b>.7</b>	<b>57.9</b>	<b>56.5</b>	<b>2.5</b>	<b>265.7</b>
<b>1993</b>									
January .....	37.9	1.6	194.8	13.8	.5	50.7	51.8	2.1	245.4
February .....	39.9	1.7	205.4	15.0	.6	54.9	55.0	2.3	260.3
March .....	40.1	1.8	205.4	15.0	.6	57.6	55.2	2.5	263.0
April .....	40.8	1.8	211.8	14.9	.7	56.8	55.7	2.5	268.6
May .....	40.5	1.8	207.5	14.7	.8	56.5	55.2	2.4	264.0
June .....	42.2	1.8	216.1	15.9	.6	60.2	58.1	2.4	276.3
July .....	41.5	1.6	218.8	15.2	.5	58.2	56.7	2.1	277.0
August .....	40.7	1.7	215.0	15.5	.6	59.4	58.2	2.3	274.4

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 15. U.S. No. 2 Distillate Prices**  
(Cents per Gallon Excluding Taxes)

Year Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>a</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>b</sup>	To Other End Users <sup>c</sup>	Average	
1983 Average	107.8	86.3	88.3	94.3	89.7	93.3	81.8
1984 Average	109.1	85.7	87.0	92.0	89.2	92.6	81.9
1985 Average	105.3	82.1	83.4	88.6	85.3	89.0	78.1
1986 Average	83.6	51.4	53.7	59.8	56.9	61.4	48.0
1987 Average	80.3	56.6	59.7	64.4	63.1	64.3	53.5
1988 Average	81.3	51.9	54.2	61.6	58.7	61.2	48.2
1989 Average	90.0	60.8	63.8	68.5	66.7	69.5	57.2
1990 Average	106.3	75.1	78.0	85.2	82.8	84.1	70.8
1991							
January	117.1	84.1	85.0	90.6	89.2	96.3	76.9
February	110.5	75.1	76.3	81.1	79.3	86.8	68.7
March	102.6	65.2	67.0	72.0	71.7	76.3	59.9
April	96.9	63.0	65.8	70.4	71.0	71.3	58.0
May	92.5	61.7	64.2	69.9	70.3	68.0	57.3
June	89.3	59.6	62.1	67.8	68.1	65.2	55.1
July	86.6	61.4	64.3	68.5	69.1	66.4	57.6
August	87.0	64.9	68.1	72.0	72.5	69.8	61.8
September	89.7	66.6	70.5	73.9	74.9	72.4	63.1
October	94.0	70.2	73.2	76.3	77.8	76.3	66.5
November	98.0	71.6	74.4	78.9	77.3	79.5	66.9
December	95.9	63.3	65.8	74.1	69.4	75.1	56.6
1991 Average	101.9	67.5	69.7	74.5	73.8	76.0	62.7
1992							
January	94.2	58.9	60.9	67.9	65.3	72.7	52.8
February	94.2	60.7	62.7	67.3	66.5	73.0	54.9
March	93.2	59.8	62.5	67.4	67.5	71.1	54.6
April	92.5	61.5	65.5	69.5	69.9	70.3	57.5
May	92.3	63.8	67.9	72.0	73.3	70.9	60.1
June	92.0	66.0	70.4	74.2	74.4	72.0	62.7
July	90.4	65.4	69.9	74.6	73.5	71.3	62.1
August	88.6	64.4	68.8	73.8	73.1	70.5	60.9
September	90.1	66.9	70.9	74.3	75.5	73.1	63.5
October	93.7	68.8	72.7	76.2	77.5	76.1	65.4
November	94.8	65.3	69.0	74.9	73.9	75.1	60.3
December	94.5	63.0	66.0	72.1	69.9	74.9	57.0
1992 Average	93.4	63.9	67.5	71.8	72.1	72.6	59.1
1993							
January	94.3	61.6	64.3	70.3	68.4	74.2	55.7
February	94.6	63.5	65.7	70.2	69.9	75.7	58.1
March	95.4	65.3	67.8	72.2	71.7	76.1	60.1
April	92.5	63.9	68.9	72.2	72.2	72.2	59.3
May	91.0	63.2	68.2	71.4	72.6	69.9	58.9
June	88.9	61.3	66.8	70.7	69.9	67.8	56.7
July	85.6	58.0	63.6	68.7	67.0	64.7	53.0
August	84.0	57.9	63.4	67.5	66.9	64.6	53.0

<sup>a</sup> No. 2 fuel oil only.

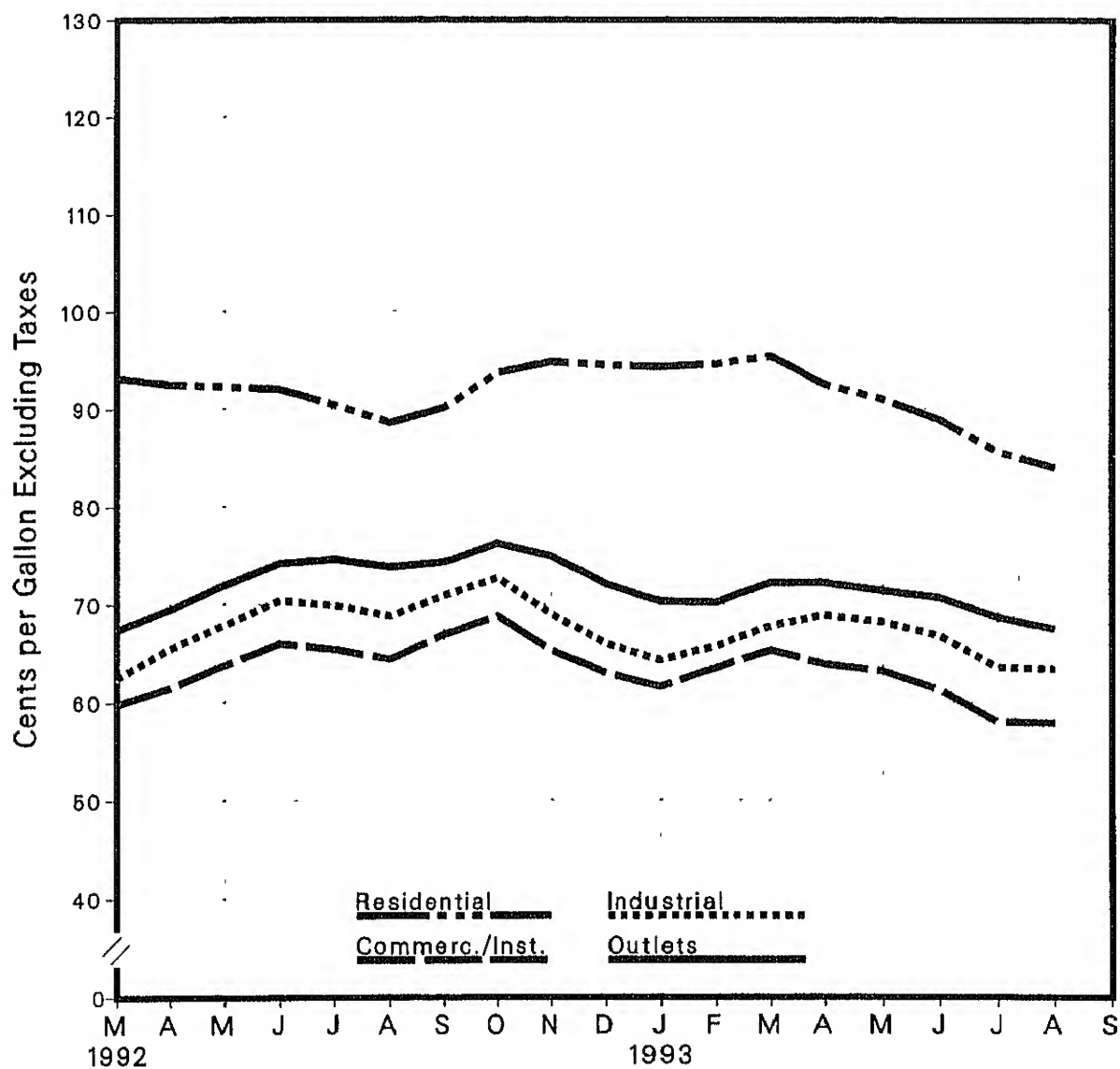
<sup>b</sup> No. 2 diesel fuel only.

<sup>c</sup> Sales to "other end users" are all end user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

Figure 10. U.S. No. 2 Distillate Average Retail Prices



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

**Table 16. Prices of No. 2 Distillate to Residences  
by Selected States**  
(Cents per Gallon Excluding Taxes)

Year Month	CT	ME	MA	NH	RI	VT	DE	DC	MD	NJ	NY	PA	VA
1978 Average	50.1	48.6	48.8	50.3	50.7	50.8	47.8	50.7	49.2	49.6	50.1	48.8	49.1
1979 Average	72.0	68.8	70.9	72.5	72.8	72.5	68.2	74.2	70.1	71.0	71.2	69.8	70.4
1980 Average	98.3	96.3	97.8	100.4	101.1	101.5	95.4	102.6	97.9	97.9	98.2	96.4	98.6
1981 Average	121.7	120.4	121.3	123.7	123.8	125.4	117.3	127.4	121.4	121.5	123.2	118.1	120.6
1982 Average	118.3	115.5	117.6	117.4	120.1	120.1	111.3	124.5	117.1	117.4	120.5	113.7	117.7
1983 Average	109.1	102.8	109.1	104.1	110.5	112.9	108.0	117.0	110.3	107.9	112.1	105.8	108.7
1984 Average	112.1	103.9	111.6	108.4	111.4	111.9	109.6	118.7	113.5	111.0	115.5	107.9	110.5
1985 Average	108.0	99.7	107.0	102.4	108.7	107.7	104.6	114.3	108.8	105.9	111.3	102.3	106.3
1986 Average	89.0	74.4	82.1	75.9	82.8	86.6	85.0	93.1	91.4	90.2	91.1	81.4	86.6
1987 Average	83.4	74.7	80.6	76.5	82.5	81.1	79.3	91.8	86.6	84.3	85.2	76.9	79.6
1988 Average	85.3	77.7	82.1	78.2	83.6	82.6	80.1	91.6	87.0	84.8	86.3	77.8	80.5
1989 Average	92.9	89.4	92.6	89.3	93.9	90.5	88.2	98.6	93.8	91.8	95.8	85.1	87.0
1990 Average	109.8	98.9	108.4	102.8	108.6	107.0	105.8	107.8	111.9	106.7	112.5	102.6	110.6
1991													
January	122.5	114.4	118.1	107.2	113.3	117.7	113.0	124.1	122.0	119.6	124.6	117.7	117.2
February	116.0	105.9	111.3	100.7	109.5	111.3	105.4	118.6	116.1	113.2	120.2	110.9	110.3
March	109.0	95.4	102.6	90.5	101.8	104.4	98.4	112.3	107.7	104.3	112.8	101.8	102.4
April	101.4	87.1	96.1	83.9	94.7	98.5	92.3	105.6	102.7	98.6	106.7	95.5	96.1
May	96.5	81.9	91.7	79.4	89.7	93.5	91.5	101.1	98.7	94.4	101.2	89.9	90.7
June	92.7	79.6	88.9	77.3	87.1	91.3	84.0	95.3	96.2	90.3	98.1	85.7	87.8
July	90.0	82.3	88.5	77.6	88.8	88.1	81.5	98.6	93.7	88.5	93.9	80.8	86.9
August	89.7	83.4	88.7	80.6	88.7	88.6	86.0	98.6	94.0	89.0	93.0	81.8	87.5
September	92.0	87.3	90.9	84.2	90.3	91.9	87.3	101.7	96.8	92.2	98.7	83.4	90.4
October	96.3	91.3	94.9	87.8	94.9	93.9	92.8	104.0	100.1	96.9	103.3	88.8	93.6
November	99.8	95.1	97.5	90.1	95.8	95.7	96.9	107.3	103.2	100.7	108.1	93.6	97.0
December	98.3	89.3	95.8	88.8	93.4	94.1	94.9	107.7	102.6	96.6	105.7	93.1	95.2
1991 Average	106.2	96.0	103.0	91.6	99.9	101.9	99.7	112.2	108.4	104.0	111.3	99.7	101.1
1992													
January	96.4	87.7	93.2	88.1	90.7	92.4	94.4	107.3	101.6	95.6	103.4	91.4	94.3
February	95.5	88.2	92.5	86.5	91.7	92.8	92.7	107.3	100.9	95.1	103.8	91.5	93.7
March	94.0	86.4	91.5	83.3	90.9	92.2	92.4	105.3	100.3	93.5	102.1	90.1	93.7
April	93.3	85.5	91.4	81.8	90.4	91.7	91.5	104.7	99.0	92.9	101.1	89.4	92.6
May	93.1	85.5	91.0	81.7	90.9	91.5	90.2	102.3	97.2	89.2	101.1	88.6	91.7
June	91.8	87.1	91.3	82.9	89.7	90.7	91.4	102.7	97.6	90.4	101.7	86.5	89.8
July	93.1	87.7	90.4	82.3	89.9	89.1	90.6	102.0	95.7	90.3	100.7	83.0	90.2
August	90.5	87.8	89.6	81.8	89.4	89.4	89.5	101.9	95.2	88.1	99.0	81.7	88.4
September	91.8	86.8	90.7	83.0	89.8	91.6	90.3	101.2	95.7	90.8	99.7	84.4	89.4
October	94.9	89.3	93.5	87.6	92.7	92.0	93.7	104.0	98.8	94.0	102.7	87.5	91.9
November	95.8	88.3	93.8	87.6	92.5	92.6	92.8	105.7	100.4	94.6	104.7	89.6	92.1
December	95.2	85.7	93.5	87.7	91.5	92.9	90.9	105.4	100.4	95.4	104.3	89.3	93.3
1992 Average	94.7	87.1	92.4	85.6	91.2	92.2	92.4	105.7	99.9	93.9	102.8	88.9	92.8
1993													
January	94.9	85.2	94.0	87.1	91.7	93.4	90.8	105.2	100.6	96.5	104.3	89.0	92.4
February	96.2	85.4	94.4	87.0	91.8	93.3	90.8	106.8	101.3	96.7	104.2	89.1	93.5
March	96.7	86.5	94.8	86.6	92.4	93.7	92.4	108.5	101.6	96.2	104.2	89.8	94.2
April	93.6	83.0	91.3	85.0	90.3	91.2	91.6	107.1	99.2	95.1	100.1	89.0	90.3
May	91.7	81.5	90.9	83.8	80.6	91.2	89.4	104.3	96.2	91.6	99.3	86.6	88.6
June	88.6	80.8	88.6	82.5	87.6	89.7	90.9	100.4	95.2	88.0	97.8	84.0	86.0
July	86.5	78.2	83.9	78.0	85.2	85.5	90.2	100.2	92.3	87.9	95.2	78.8	84.7
August	83.9	77.4	83.1	76.6	82.7	85.6	86.0	96.3	91.7	85.8	93.5	77.0	84.3

See footnotes at end of table

**Table 16. Prices of No. 2 Distillate to Residences  
by Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Year Month	WV	IL	IN	MI	MN	OH	WI	ID	AK	OR	WA	U.S. Average
1978 Average .....	46.2	46.5	48.5	47.9	47.8	47.4	44.7	43.6	53.2	45.8	48.6	49.0
1979 Average .....	65.1	68.8	72.7	70.9	72.4	68.6	67.3	62.1	68.2	68.0	69.7	70.4
1980 Average .....	92.2	95.8	99.6	97.8	99.9	91.9	91.5	91.6	97.8	97.3	100.8	97.4
1981 Average .....	115.0	114.9	118.5	118.3	118.4	113.2	109.1	110.4	118.0	111.4	116.5	119.4
1982 Average .....	109.3	110.9	114.3	113.9	115.1	110.2	107.8	110.4	117.4	111.6	117.6	116.0
1983 Average .....	101.0	100.4	100.7	106.4	103.1	101.3	101.2	101.8	108.8	103.6	109.0	107.8
1984 Average .....	102.1	100.1	103.1	105.0	104.1	102.1	101.0	98.5	106.9	99.3	102.6	109.1
1985 Average .....	98.0	97.5	99.1	102.1	101.9	99.7	98.3	97.2	108.3	97.1	101.1	105.3
1986 Average .....	74.6	NA	74.8	81.0	79.2	77.7	75.6	73.8	94.9	70.4	77.5	83.6
1987 Average .....	76.4	79.8	75.4	77.5	74.6	74.7	75.1	68.8	86.5	72.5	79.5	80.3
1988 Average .....	74.2	77.8	75.4	77.5	73.5	74.7	73.9	68.8	86.9	70.9	78.5	81.3
1989 Average .....	83.0	80.9	83.2	85.3	82.4	81.6	81.1	77.8	96.4	80.2	87.4	90.0
1990 Average .....	99.1	96.1	99.3	100.9	101.4	98.1	94.2	97.4	110.1	97.0	102.9	106.3
<b>1991</b>												
January .....	110.5	102.5	105.9	109.8	105.4	105.5	102.4	110.8	129.3	108.4	118.4	117.1
February .....	101.5	92.9	95.4	98.5	93.5	94.6	92.4	97.3	122.8	102.9	112.0	110.5
March .....	90.8	86.5	87.9	91.5	87.2	85.7	87.8	84.0	109.5	88.8	95.3	102.6
April .....	87.6	88.3	86.0	90.7	87.8	83.2	84.0	83.4	101.9	86.4	93.5	96.9
May .....	85.8	88.5	86.3	88.1	88.1	83.1	82.9	84.4	101.3	86.5	94.9	92.5
June .....	83.6	86.8	80.3	87.4	87.1	80.7	80.9	83.4	98.2	85.6	91.7	89.3
July .....	81.7	82.2	78.8	83.3	84.4	79.6	78.0	80.0	98.6	83.6	85.5	86.6
August .....	82.4	86.5	85.5	84.4	86.3	81.1	78.8	84.6	96.8	87.3	92.6	87.0
September .....	84.8	87.3	85.5	86.8	84.0	84.8	82.7	87.4	92.4	90.8	93.5	89.7
October .....	89.7	88.4	86.7	89.5	86.8	88.7	85.7	87.6	91.3	89.1	95.2	84.0
November .....	91.8	92.4	87.8	92.8	89.2	91.8	89.9	93.3	96.0	90.6	99.5	98.0
December .....	89.0	89.9	83.3	89.9	84.4	86.0	85.4	94.7	95.2	87.0	96.2	95.9
1991 Average .....	93.4	92.7	91.8	94.2	91.1	91.0	89.5	95.1	105.0	93.3	101.6	101.9
<b>1992</b>												
January .....	85.5	85.2	77.8	86.6	79.4	82.0	80.1	86.1	92.7	85.3	92.0	94.2
February .....	86.9	85.6	78.7	86.5	79.6	83.0	79.8	79.2	91.1	83.5	90.9	94.2
March .....	86.6	88.1	79.5	86.6	79.7	82.5	79.2	82.2	93.0	82.6	91.8	93.2
April .....	85.6	88.4	80.2	86.7	81.8	82.9	80.4	84.2	92.1	85.5	92.0	92.5
May .....	84.2	89.0	81.2	86.4	83.9	83.5	81.5	86.1	93.6	88.9	94.3	92.3
June .....	86.5	90.8	79.6	86.1	82.9	85.3	81.9	84.6	93.9	89.2	90.6	92.0
July .....	82.3	87.9	82.4	85.0	84.5	81.7	81.1	86.1	93.0	87.3	88.0	90.4
August .....	81.4	86.4	83.1	85.7	84.1	82.3	80.6	79.4	96.8	84.0	84.0	86.6
September .....	85.4	88.9	84.8	88.2	85.0	84.7	83.6	86.0	93.4	87.6	90.3	90.1
October .....	88.3	90.8	85.8	90.0	87.1	86.4	84.1	89.6	96.8	91.7	94.5	93.7
November .....	88.0	90.4	82.7	88.2	86.0	84.6	83.7	91.7	97.7	92.8	98.7	94.8
December .....	89.0	88.2	81.8	87.9	83.1	84.5	84.3	86.8	95.8	91.5	99.7	94.5
1992 Average .....	86.4	87.6	81.1	87.1	82.3	83.6	81.8	85.7	94.0	87.8	94.3	93.4
<b>1993</b>												
January .....	88.3	87.2	81.8	88.3	82.9	84.2	82.1	84.8	95.1	91.7	100.6	94.3
February .....	88.6	88.2	82.3	87.6	83.0	85.5	83.3	84.2	95.1	89.9	101.4	94.6
March .....	89.9	90.0	83.1	90.1	83.9	86.6	84.0	87.8	94.2	90.7	99.7	95.4
April .....	86.9	NA	84.9	90.8	83.3	86.9	84.7	84.1	94.7	92.1	101.5	92.5
May .....	84.8	84.8	83.6	89.8	84.1	86.0	84.9	82.9	96.6	91.3	100.3	91.0
June .....	86.7	81.2	82.1	87.4	83.4	85.7	84.2	82.8	97.1	90.2	95.1	88.9
July .....	81.2	79.4	79.0	83.4	82.0	79.3	84.1	80.0	95.3	86.1	91.3	85.6
August .....	78.7	77.2	76.5	83.0	79.4	78.7	79.1	76.3	95.2	83.5	89.3	84.0

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report," January 1983 forward. Energy Information Administration Form EIA-9A, "No. 2 Distillate Price Monitoring Report," source for backcast estimates prior to January 1983.

**Table 17. U.S. Refiner Residual Fuel Oil Prices**  
(Cents per Gallon Excluding Taxes)

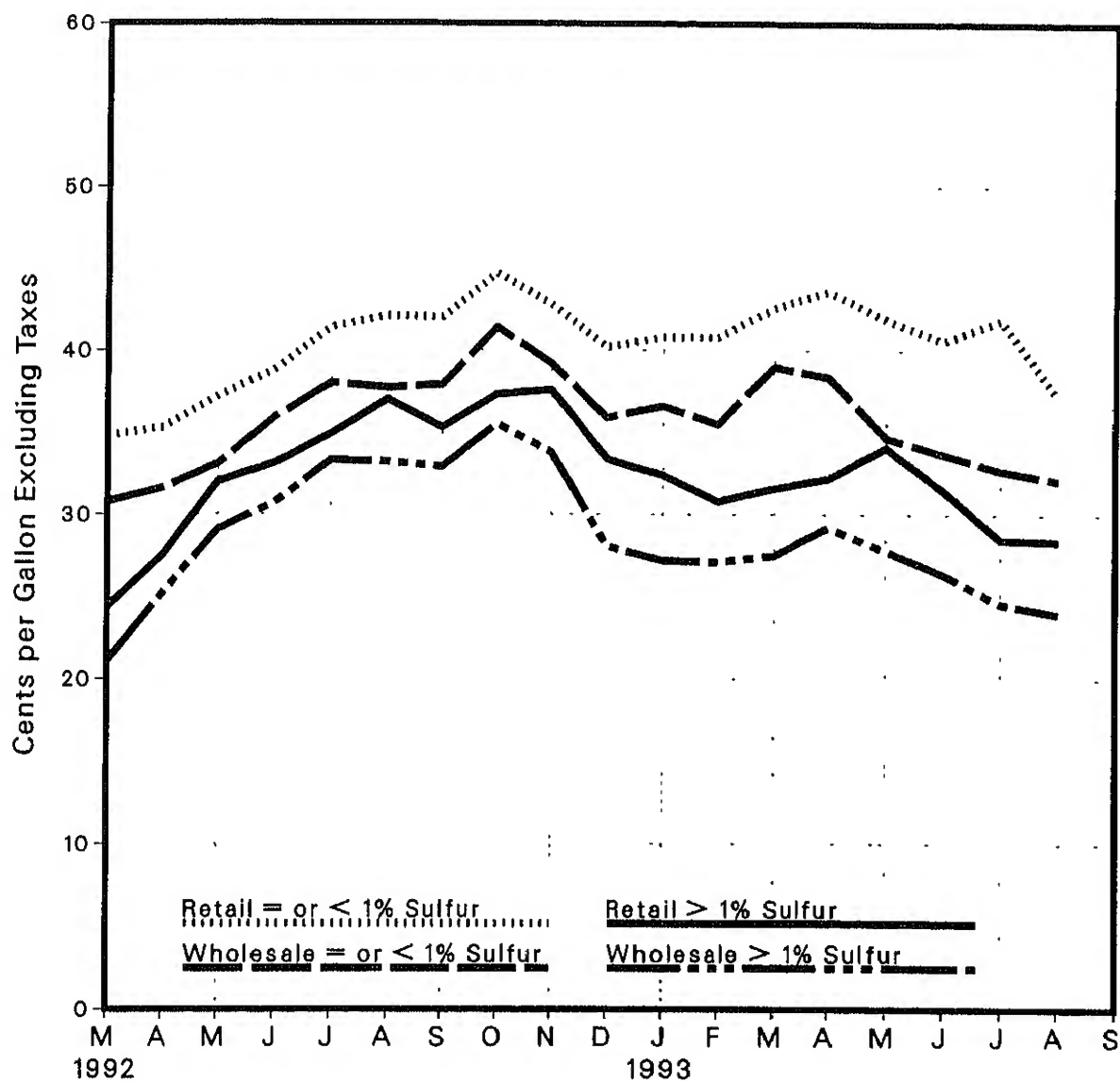
Year Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1978 Average .....	31.4	29.3	27.5	24.5	29.8	26.3
1979 Average .....	46.8	45.0	38.9	38.6	43.6	39.9
1980 Average .....	67.5	60.8	52.3	47.9	60.7	52.8
1981 Average .....	82.9	74.8	67.3	62.2	75.6	66.3
1982 Average .....	74.7	69.5	61.1	57.2	67.6	61.2
1983 Average .....	69.5	64.3	61.1	59.1	65.1	60.9
1984 Average .....	72.0	68.5	65.9	63.9	68.7	65.4
1985 Average .....	84.4	61.0	58.2	56.0	61.0	57.7
1986 Average .....	37.2	32.8	31.7	28.9	34.3	30.5
1987 Average .....	44.7	41.2	39.6	36.2	42.3	38.5
1988 Average .....	37.2	33.3	30.0	27.1	33.4	30.0
1989 Average .....	43.6	40.7	34.4	33.1	38.5	36.0
1990 Average .....	50.5	47.2	40.0	37.2	44.4	41.3
<b>1991</b>						
January .....	59.8	52.1	49.7	49.2	53.4	50.2
February .....	44.4	36.5	37.1	32.0	39.8	33.4
March .....	38.3	36.0	28.2	24.2	32.3	28.2
April .....	37.8	33.6	27.0	25.8	30.2	28.7
May .....	36.6	36.6	27.6	27.7	31.0	30.3
June .....	35.3	32.1	26.9	28.6	29.5	29.7
July .....	36.4	32.6	28.2	27.4	31.2	28.8
August .....	36.8	33.4	27.7	25.9	31.1	27.9
September .....	36.8	33.7	27.3	25.4	30.6	27.9
October .....	38.5	34.1	29.7	27.6	32.3	29.5
November .....	40.8	36.6	31.8	27.9	35.1	30.7
December .....	40.0	34.8	28.8	26.1	33.1	28.9
1991 Average .....	40.2	36.4	30.6	29.2	34.0	31.4
<b>1992</b>						
January .....	35.7	30.3	24.7	21.1	28.8	24.4
February .....	36.2	32.7	23.6	20.9	27.7	25.6
March .....	34.8	30.8	24.4	21.1	27.7	24.6
April .....	35.3	31.6	27.5	25.2	29.8	27.4
May .....	37.2	33.1	32.0	29.1	33.4	30.2
June .....	38.8	35.9	33.1	30.7	34.6	32.5
July .....	41.4	38.0	34.9	33.3	36.7	34.7
August .....	42.1	37.7	37.0	33.2	38.8	34.7
September .....	42.0	37.9	35.3	32.9	37.5	34.8
October .....	44.7	41.4	37.3	35.5	39.2	37.4
November .....	42.8	39.2	37.6	33.8	39.4	35.9
December .....	40.2	35.9	33.4	28.1	36.2	30.6
1992 Average .....	38.9	35.4	31.3	28.4	33.8	30.7
<b>1993</b>						
January .....	40.8	36.6	32.4	27.2	35.3	31.2
February .....	40.8	35.5	30.8	27.1	34.4	31.1
March .....	42.6	39.0	31.6	27.5	35.6	32.9
April .....	43.6	38.4	32.2	29.2	36.3	33.6
May .....	41.9	34.7	34.1	27.8	36.8	31.0
June .....	40.6	33.7	31.5	26.4	34.7	30.0
July .....	41.9	32.7	28.5	24.6	33.2	27.4
August .....	37.2	32.1	28.4	24.0	31.7	27.3

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," January 1983 forward. Energy Information Administration Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," source for backcast estimates prior to January 1983.



Figure 11. U.S. Refiner Residual Fuel Oil Prices



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."

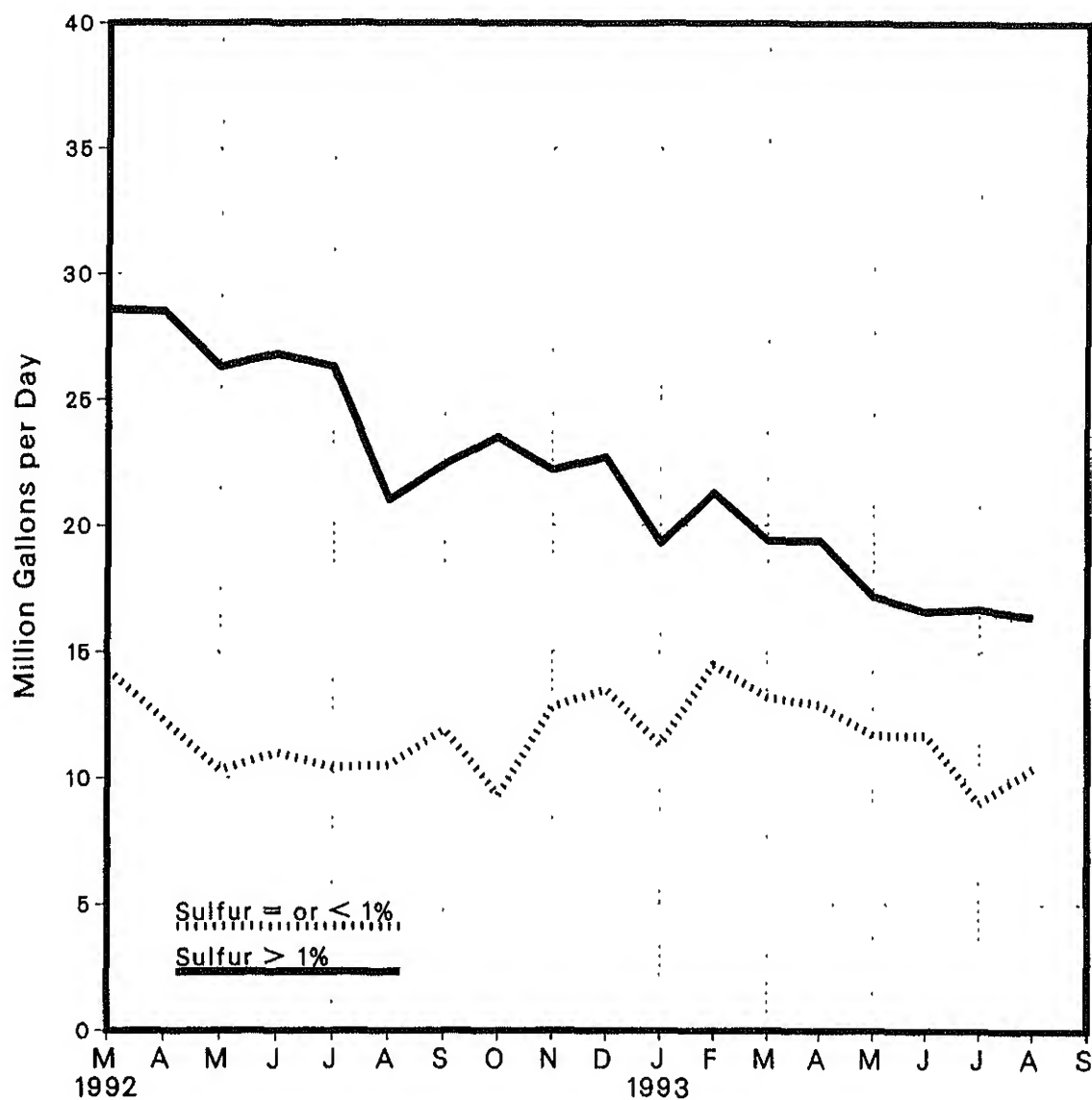
**Table 18. U.S. Refiner Residual Fuel Oil Volumes**  
(Million Gallons per Day)

Year Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Total	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
1983 Average . . .	13.4	7.2	14.9	12.9	28.3	20.2
1984 Average . . .	15.1	6.7	17.8	14.6	32.9	21.3
1985 Average . . .	11.4	7.0	13.8	12.9	25.2	19.9
1986 Average . . .	15.3	7.7	16.5	11.1	31.7	18.7
1987 Average . . .	15.1	7.8	13.9	9.1	29.0	16.9
1988 Average . . .	14.2	8.7	15.9	10.3	30.2	18.9
1989 Average . . .	13.4	7.9	17.0	13.1	30.4	21.0
1990 Average . . .	11.1	7.4	14.9	10.5	25.9	17.9
1991						
January . . . . .	8.7	6.8	14.7	13.0	23.4	19.8
February . . . . .	8.5	6.1	14.2	13.6	22.7	19.8
March . . . . .	10.3	5.2	15.2	10.2	25.4	15.4
April . . . . .	6.4	7.3	15.7	12.2	22.1	19.5
May . . . . .	8.6	5.9	14.5	14.4	23.2	20.4
June . . . . .	7.8	6.0	18.2	12.9	25.9	18.9
July . . . . .	10.2	3.6	18.0	9.5	28.3	13.0
August . . . . .	9.3	4.8	15.5	13.6	24.8	18.4
September . . . . .	8.2	5.7	15.0	12.8	23.1	18.5
October . . . . .	5.9	4.2	13.9	10.2	19.8	14.4
November . . . . .	7.9	4.9	13.8	10.8	21.7	15.7
December . . . . .	10.7	6.5	16.9	13.4	27.6	19.9
1991 Average . . .	8.6	5.6	15.5	12.2	24.0	17.8
1992						
January . . . . .	10.5	8.0	17.9	10.8	28.4	16.8
February . . . . .	9.1	5.5	18.8	8.2	27.9	13.6
March . . . . .	8.4	5.9	17.9	10.7	26.2	16.7
April . . . . .	6.0	6.3	16.8	11.7	22.8	17.9
May . . . . .	5.3	4.9	14.1	12.1	19.5	17.1
June . . . . .	5.2	5.8	16.3	10.5	21.5	16.2
July . . . . .	5.9	4.5	15.1	11.2	21.0	15.6
August . . . . .	6.5	4.0	12.4	8.6	18.9	12.6
September . . . . .	6.6	5.4	13.5	8.9	20.0	14.3
October . . . . .	5.1	4.2	14.6	8.9	19.7	13.1
November . . . . .	7.1	5.7	13.6	8.6	20.7	14.3
December . . . . .	9.0	4.5	13.3	9.5	22.2	14.0
1992 Average . . .	7.1	5.2	14.5	10.8	21.6	16.0
1993						
January . . . . .	7.0	4.3	13.5	5.8	20.6	10.1
February . . . . .	7.7	6.8	13.9	7.4	21.6	14.2
March . . . . .	7.0	6.2	12.4	7.0	19.4	13.2
April . . . . .	7.2	5.7	13.0	6.4	20.2	12.1
May . . . . .	5.3	6.4	9.9	7.3	15.2	13.8
June . . . . .	6.1	5.6	11.0	5.6	17.1	11.2
July . . . . .	5.3	3.7	9.8	6.9	15.1	10.6
August . . . . .	6.1	4.3	10.2	6.1	16.3	10.5

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals and averages may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

Figure 12. U.S. Refiner Residual Fuel Oil Total Volumes



Source: Energy Information Administration, Form EIA-782A "Refiners/Gas Plant Operators Monthly Petroleum Product Sales Report."



## Crude Oil Prices



**Table 19. Crude Oil Refiner Acquisition Costs**  
(Dollars per Barrel)

Year Month	Major Refiners			Other Refiners			Average		
	Domestic	Imported	Average	Domestic	Imported	Average	Domestic	Imported	Average
1978 Average ....	NA	NA	NA	NA	NA	NA	10.61	14.57	12.46
1979 Average ..	NA	NA	NA	NA	NA	NA	14.27	21.67	17.72
1980 Average ....	NA	NA	NA	NA	NA	NA	24.23	33.89	28.07
1981 Average ...	34.25	37.41	35.49	34.54	36.39	34.92	34.33	37.05	35.24
1982 Average .....	31.07	33.92	31.89	31.72	32.07	31.81	31.22	33.55	31.87
1983 Average ...	28.67	29.53	28.92	29.42	28.33	29.17	28.87	29.30	28.99
1984 Average ..	28.42	29.04	28.61	28.90	28.08	28.71	28.53	28.88	28.63
1985 Average ....	26.66	27.11	26.79	26.66	26.51	26.63	26.66	26.99	26.75
1986 Average ....	14.74	13.99	14.49	15.07	14.06	14.75	14.82	14.00	14.55
1987 Average ..	17.65	18.14	17.84	18.10	18.09	18.10	17.76	18.13	17.90
1988 Average ....	14.59	14.57	14.58	15.12	14.55	14.91	14.74	14.66	14.67
1989 Average ....	17.75	18.09	17.90	18.20	18.07	18.15	17.87	18.08	17.97
1990 Average ....	22.56	22.02	22.30	22.66	20.87	21.98	22.59	21.76	22.22
<b>1991</b>									
January ....	22.87	22.56	22.73	24.23	21.34	23.21	23.25	22.30	22.85
February .....	18.96	18.36	18.70	20.88	18.08	19.92	19.55	18.30	19.03
March .....	17.77	17.68	17.73	18.91	17.19	18.35	18.12	17.58	17.89
April ....	18.49	18.35	18.42	18.74	18.18	18.55	18.56	18.32	18.46
May ....	18.77	18.45	18.62	19.44	18.04	18.90	18.98	18.36	18.70
June ....	17.83	17.85	17.84	18.90	17.56	18.37	18.16	17.78	17.98
July .....	18.77	18.24	18.52	19.24	17.81	18.69	18.91	18.14	18.57
August ..	18.74	18.80	18.77	19.88	18.43	19.29	19.10	18.71	18.92
September ....	18.99	19.18	19.09	20.01	18.41	19.38	19.31	19.00	19.17
October ..	20.12	19.92	20.03	20.98	19.70	20.49	20.39	19.86	20.16
November ...	19.59	19.57	19.58	20.90	18.64	20.07	20.01	19.35	19.72
December ..	17.50	17.25	17.39	18.65	16.89	18.01	17.84	17.17	17.56
1991 Average .....	19.03	18.82	18.93	20.02	18.33	19.39	19.33	18.70	19.06
<b>1992</b>									
January .....	16.68	16.13	16.37	17.33	15.97	16.83	16.80	16.10	16.50
February ....	16.30	15.96	16.14	17.10	16.17	16.77	16.54	16.00	16.30
March .....	16.56	16.46	16.51	17.06	16.05	16.69	16.71	16.36	16.56
April .....	17.81	17.58	17.70	18.05	16.64	17.55	17.88	17.37	17.66
May .....	18.70	19.00	18.84	19.21	18.04	18.79	18.86	18.79	18.83
June .....	20.00	19.99	20.00	20.40	19.14	19.97	20.13	19.83	19.99
July .....	20.22	19.82	20.02	20.88	19.44	20.32	20.42	19.74	20.10
August .....	19.70	19.39	19.54	20.14	18.79	19.60	19.84	19.25	19.56
September .....	19.72	19.37	19.55	20.21	18.88	19.71	19.88	19.26	19.59
October .....	19.43	19.44	19.44	20.09	18.99	19.64	19.64	19.34	19.49
November .....	18.76	18.42	18.59	19.27	18.32	18.86	18.90	18.40	18.66
December .....	17.79	17.00	17.41	17.99	16.74	17.48	17.85	16.94	17.43
1992 Average .....	18.46	18.30	18.38	19.01	17.84	18.57	18.63	18.20	18.43
<b>1993</b>									
January .....	17.33	16.86	17.09	17.58	16.46	17.12	17.40	16.78	17.10
February ....	17.80	17.61	17.71	17.94	16.70	17.45	17.84	17.41	17.64
March .....	18.14	17.90	18.02	18.69	17.56	18.25	18.31	17.82	18.08
April .....	18.34	18.52	18.44	18.80	17.70	18.37	18.49	18.35	18.42
May .....	18.33	17.94	18.12	18.66	17.71	18.26	18.43	17.89	18.16
June .....	17.61	16.80	17.19	17.90	16.81	17.45	17.70	16.80	17.26
July .....	16.24	15.75	16.00	16.68	16.04	16.40	16.36	15.82	16.10
August .....	15.91	15.48	15.70	16.33	16.08	16.22	16.03	15.62	15.84

NA = Not available.

Note: Values shown for current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: Geographic coverage is the 50 United States, the District of Columbia, Puerto Rico, Guam, and the Virgin Islands.

Sources: January 1978 through June 1978: Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report"; July 1978 through December 1980: Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners' Monthly Report"; January 1981 to present: Form EIA-14, "Refiners' Monthly Cost Report."

**Table 20. Domestic Crude Oil First Purchase Prices**  
(Dollars per Barrel)

Year Month	U.S. Average		PAD District I				PAD District II						
	Total U.S.	Less Alaska North Slope	PAD I Average	New York	Pennsylvania	West Virginia	PAD II Average	Illinois	Indiana	Kansas	Kentucky	Michigan	Nebraska
1978 Average ...	9.00	9.56	12.25	W	14.72	14.48	11.91	13.81	13.70	13.20	13.73	11.86	11.40
1979 Average ...	12.64	13.01	14.30	W	24.13	23.35	18.33	23.49	23.28	21.57	22.55	14.47	18.13
1980 Average ...	21.59	22.65	22.66	W	37.46	36.92	30.12	35.78	35.91	34.20	34.98	23.54	30.60
1981 Average ...	31.77	33.71	35.22	W	36.03	35.63	35.63	38.03	36.07	35.80	35.90	35.74	35.32
1982 Average ...	28.52	30.43	31.77	30.91	30.77	29.98	31.65	31.69	31.66	30.79	31.19	31.80	30.98
1983 Average ...	26.19	28.00	28.32	28.19	28.28	27.27	29.17	29.12	29.06	28.45	28.60	28.93	28.58
1984 Average ...	25.88	27.59	27.76	27.70	27.71	26.90	28.62	28.76	28.72	27.99	28.24	28.54	27.83
1985 Average ...	24.09	25.74	25.88	25.19	25.05	24.35	25.94	26.90	26.82	25.33	26.20	26.16	25.42
1986 Average ...	12.51	14.13	14.76	16.03	15.77	14.68	14.30	14.70	14.55	14.02	14.20	14.61	13.70
1987 Average ...	15.40	16.83	16.52	17.40	17.43	16.56	17.42	17.53	17.49	17.37	17.19	17.63	17.08
1988 Average ...	12.58	13.97	14.21	W	15.26	14.35	14.65	14.79	14.78	14.55	14.58	14.92	14.08
1989 Average ...	15.86	17.13	17.16	W	18.15	17.18	18.04	18.36	18.37	18.18	18.36	18.06	17.36
1990 Average ..	20.03	21.57	22.06	23.32	23.00	22.16	22.88	23.36	23.46	23.21	23.20	22.92	21.94
<b>1991</b>													
January .....	19.60	21.44	22.40	23.67	22.46	W	22.63	23.37	23.05	22.99	22.95	22.77	21.77
February .....	16.28	17.62	18.76	20.00	19.60	W	18.90	19.29	19.29	19.27	18.89	19.03	17.96
March .....	15.13	16.72	16.92	17.53	17.00	W	18.07	18.59	18.51	18.62	18.24	18.15	17.29
April .....	16.16	17.65	18.00	18.79	18.42	W	19.05	19.65	19.65	19.54	19.62	19.34	18.30
May .....	16.44	18.00	18.58	19.59	18.98	W	19.36	20.00	19.99	19.71	19.62	19.65	18.48
June .....	15.58	17.06	17.51	18.36	18.29	W	18.27	18.98	18.99	18.56	18.58	18.65	17.52
July .....	16.36	18.01	18.41	19.20	19.11	W	19.56	20.22	20.23	19.70	19.84	19.90	18.83
August .....	16.60	18.16	19.02	19.23	19.72	W	19.77	20.43	20.44	19.91	20.09	20.10	18.99
September ...	16.71	18.35	19.28	20.06	19.92	W	19.99	20.62	20.68	20.09	20.25	20.29	19.25
October .....	17.72	19.54	20.62	21.10	21.43	W	21.33	21.96	21.92	21.45	21.65	21.67	20.63
November ...	17.12	18.96	20.10	20.44	20.52	W	20.48	21.04	21.05	20.53	20.66	20.86	19.72
December .....	14.68	16.34	17.54	17.68	17.76	W	17.63	18.18	18.17	17.73	17.87	17.98	16.82
1991 Average ...	16.54	18.16	19.01	19.67	19.48	W	19.58	20.19	20.20	19.84	19.84	19.88	18.78
<b>1992</b>													
January .....	13.99	15.55	16.51	16.88	17.10	16.22	16.95	17.65	17.62	16.94	17.17	17.28	16.18
February .....	14.04	15.61	16.73	W	17.32	16.27	17.06	17.66	17.74	16.99	17.32	17.48	16.19
March .....	14.12	15.55	16.54	W	17.13	16.09	16.99	17.62	17.68	16.91	17.30	17.36	16.08
April .....	15.36	16.83	17.95	W	18.16	17.43	18.31	18.93	19.02	18.16	18.52	18.60	17.19
May .....	16.38	17.79	18.85	W	19.24	18.28	19.08	19.75	19.77	18.95	19.39	19.40	17.92
June .....	17.96	19.44	20.53	W	20.67	19.87	20.48	21.07	21.11	20.28	20.78	20.79	19.22
July .....	17.80	18.98	19.49	W	19.86	18.77	19.81	20.43	20.54	19.60	19.97	20.20	18.56
August .....	17.07	18.31	19.33	19.03	19.35	18.66	19.39	20.01	19.93	19.25	19.23	19.76	18.18
September ...	17.20	18.64	19.93	20.09	19.86	19.17	19.95	20.56	20.47	19.83	19.85	20.38	18.79
October .....	17.16	18.52	19.85	20.51	20.09	19.68	19.72	20.32	20.20	19.61	19.56	20.13	18.63
November ...	16.00	17.22	18.74	19.60	20.09	19.22	18.46	18.98	18.91	18.28	18.40	18.79	17.26
December .....	14.94	16.26	17.68	18.94	18.73	18.10	17.56	18.09	18.22	17.41	17.40	17.81	16.31
1992 Average ....	15.99	17.38	18.52	19.05	19.01	18.09	18.63	19.26	19.27	18.50	18.75	18.99	17.51
<b>1993</b>													
January .....	14.64	15.90	17.16	W	18.20	17.44	17.15	17.81	17.77	17.11	17.21	17.52	15.93
February .....	15.47	16.71	17.87	17.78	18.21	17.45	18.09	18.75	18.81	18.05	18.08	18.57	16.88
March .....	15.88	17.04	18.70	18.62	18.97	18.02	18.30	18.92	18.93	18.16	18.22	18.75	16.95
April .....	16.08	17.08	19.19	18.71	19.25	18.20	18.20	18.66	18.83	18.06	18.12	18.70	16.91
May .....	15.97	16.89	18.68	18.72	18.85	17.86	17.78	18.47	18.38	17.50	17.84	18.34	16.28
June .....	15.00	15.96	18.11	17.85	17.98	17.57	16.74	17.47	17.42	16.35	16.83	17.29	15.40
July .....	13.78	14.62	16.98	W	17.07	16.41	15.52	16.25	16.25	15.10	15.78	16.00	14.10
August .....	13.71	14.67	16.98	16.47	16.88	16.22	15.65	16.46	16.50	15.22	16.03	16.18	14.20

See footnotes at end of table.



**Table 20. Domestic Crude Oil First Purchase Prices (Continued)**  
(Dollars per Barrel)

Year Month	PAD District II (Cont.)				PAD District III							
	North Dakota	Ohio	Oklahoma	South Dakota	PAD III Average	Alabama	Arkansas	Louisiana	Mississippi	New Mexico	Texas	Federal Offshore Gulf
1978 Average .	9.75	13.80	11.30	12.16	9.37	10.52	10.63	9.03	7.91	10.17	9.29	9.86
1979 Average .	13.64	22.79	17.53	15.35	12.33	11.97	14.72	11.42	10.74	14.33	12.65	11.23
1980 Average ....	26.42	36.64	29.25	28.81	21.24	20.57	24.17	19.87	20.85	24.06	21.84	18.87
1981 Average ...	35.63	36.11	35.43	35.55	35.00	35.80	33.69	35.45	30.47	35.04	35.06	35.07
1982 Average .	31.89	30.90	32.04	31.63	31.92	32.32	30.12	32.44	29.04	31.82	31.77	32.61
1983 Average .	29.27	28.14	29.67	29.10	29.45	30.07	28.28	30.02	26.76	29.26	29.35	29.77
1984 Average ..	28.39	27.71	29.11	28.36	29.03	29.39	28.15	29.67	27.28	28.69	28.87	29.36
1985 Average	25.32	25.11	26.28	25.79	26.91	25.77	25.79	27.22	25.51	26.84	26.80	27.33
1986 Average	13.54	15.51	14.47	13.81	14.89	13.91	14.54	15.32	13.63	14.93	14.73	15.27
1987 Average	16.76	17.42	17.62	16.96	17.57	16.80	17.23	17.97	16.78	17.57	17.55	17.54
1988 Average ..	13.85	15.19	14.86	14.04	14.75	13.86	14.41	15.22	13.98	14.78	14.71	14.71
1989 Average ..	17.12	18.06	18.23	17.33	17.86	17.27	17.34	18.39	17.00	17.86	17.81	17.83
1990 Average ...	21.94	23.09	22.95	22.32	22.42	22.09	21.56	23.04	21.06	22.44	22.37	22.40
1991												
January ... ..	22.08	23.56	22.43	22.12	22.39	22.13	21.16	23.21	20.82	22.58	22.20	22.60
February .....	18.12	20.05	18.85	18.24	18.51	18.05	17.06	19.37	16.97	18.78	18.29	18.79
March .....	17.36	17.04	18.01	17.50	17.67	17.58	16.35	18.70	15.90	17.78	17.43	17.95
April ... ..	18.14	18.37	18.98	18.53	18.66	18.43	17.39	19.55	16.99	18.63	18.45	18.93
May ... ..	18.50	18.97	19.36	18.99	19.00	18.67	17.71	19.86	17.50	19.08	18.78	19.32
June ... ..	17.56	18.31	18.20	18.13	17.97	17.80	16.77	18.73	16.41	18.12	17.76	18.27
July ... ..	18.72	19.14	19.65	19.16	19.14	19.03	17.91	19.98	17.75	19.32	18.97	19.26
August .....	18.96	19.69	19.83	19.37	19.30	19.28	18.18	20.15	17.83	19.36	19.15	19.39
September ...	19.06	19.94	20.12	19.76	19.56	19.45	18.42	20.63	17.99	19.69	19.41	19.56
October .....	20.38	21.44	21.44	20.87	20.92	20.81	19.94	22.03	19.36	20.98	20.76	20.93
November ....	19.74	20.64	20.56	20.28	20.21	20.21	19.16	21.23	18.51	20.33	20.03	20.26
December ...	16.84	17.74	17.73	17.35	17.37	17.23	16.52	18.34	15.63	17.54	17.17	17.50
1991 Average	18.80	19.59	19.59	19.21	19.23	19.05	18.06	20.14	17.65	19.35	19.04	19.41
1992												
January .....	16.26	17.12	17.01	16.36	16.64	16.43	15.69	17.58	14.93	16.77	16.51	16.64
February .....	16.43	17.25	17.16	16.70	16.76	16.55	15.92	17.60	15.10	16.86	16.71	16.62
March .....	16.32	17.05	17.11	16.48	16.68	16.68	15.75	17.49	15.08	16.92	16.61	16.57
April ... ..	17.72	18.14	18.48	17.93	18.08	17.94	17.00	18.86	16.46	18.31	18.06	17.87
May .....	18.39	19.25	19.24	18.71	18.86	18.72	17.77	19.69	17.26	19.13	18.76	18.79
June .....	19.86	20.67	20.65	20.12	20.29	20.15	19.15	21.09	18.54	20.53	20.21	20.23
July ... ..	19.21	19.71	20.00	19.45	19.71	19.56	18.48	20.50	17.88	19.93	19.61	19.71
August ... ..	18.85	19.41	19.53	19.16	19.14	18.78	18.02	19.72	17.35	19.25	19.07	19.27
September .....	19.40	19.93	20.08	19.47	19.68	19.19	18.65	20.00	17.97	19.77	19.59	19.88
October .....	19.21	20.33	19.77	19.23	19.47	19.26	18.39	19.70	17.83	19.61	19.44	19.59
November .....	17.92	20.03	18.53	17.84	18.10	18.26	17.13	18.35	16.53	18.32	18.07	18.16
December ...	16.93	18.79	17.65	17.11	17.23	17.41	16.19	17.57	15.58	17.39	17.19	17.27
1992 Average ...	18.02	18.96	18.74	18.19	18.37	18.22	17.33	19.00	16.70	18.55	18.32	18.35
1993												
January ... ..	16.56	18.22	17.16	16.78	16.88	17.16	15.78	17.16	15.30	17.09	16.84	16.95
February .....	17.39	18.32	18.20	17.74	17.83	17.78	16.75	18.07	16.28	18.07	17.81	17.85
March .....	17.68	18.88	18.39	17.82	18.05	17.88	16.96	18.25	16.47	18.33	18.05	18.06
April ... ..	17.56	19.08	18.27	17.60	17.98	17.77	16.87	18.16	16.35	18.13	17.96	17.99
May ... ..	16.95	18.82	17.97	17.02	17.61	17.38	16.50	17.74	15.85	17.81	17.59	17.73
June .....	15.82	17.98	17.00	15.72	16.68	16.83	15.46	16.78	14.98	16.97	16.70	16.67
July ... ..	14.59	17.03	15.78	14.43	15.47	15.10	14.21	15.51	13.81	15.58	15.51	15.53
August .....	14.63	16.68	15.93	14.50	15.59	15.52	14.71	15.68	13.96	15.72	15.59	15.66

See footnotes at end of table.

**Table 20. Domestic Crude Oil First Purchase Prices (Continued)**  
(Dollars per Barrel)

Year Month	PAD District IV					PAD District V				
	PAD IV Average	Colorado	Montana	Utah	Wyoming	PAD V Average	Alaska North Slope	Alaska Other	California	Federal Offshore California
1978 Average .	9.50	10.84	9.04	9.98	9.16	6.60	5.21	5.45	8.58	6.10
1979 Average .	11.98	13.28	12.03	11.41	11.73	11.17	10.57	6.22	12.78	8.06
1980 Average .	21.29	22.91	20.53	19.79	21.34	19.09	16.87	10.25	23.87	16.28
1981 Average ...	33.38	35.69	34.69	34.14	32.30	24.79	23.23	30.15	26.80	24.56
1982 Average .	30.14	31.56	31.25	30.50	29.37	21.84	19.92	27.74	24.58	23.37
1983 Average ..	27.81	28.92	28.80	28.12	27.19	19.66	17.69	23.59	22.61	20.54
1984 Average .	27.18	28.09	28.07	27.21	26.73	19.52	17.91	24.37	22.09	20.41
1985 Average ...	24.78	25.64	25.29	23.98	24.67	19.11	16.98	22.46	22.14	20.08
1986 Average ....	13.24	13.98	13.58	13.33	12.94	8.53	6.45	13.13	11.90	9.48
1987 Average ...	16.77	17.71	16.57	17.22	16.45	11.89	10.83	15.48	13.92	11.82
1988 Average ..	13.85	14.83	13.84	14.24	13.47	9.28	8.43	12.92	10.97	9.41
1989 Average .	17.37	18.86	17.03	18.63	16.73	12.71	12.00	16.17	14.06	12.64
1990 Average ..	21.66	23.16	21.61	22.61	21.04	16.15	15.23	21.16	17.81	16.21
1991										
January ... ..	21.35	23.15	21.37	22.75	20.56	15.24	14.11	19.18	17.48	15.08
February . ....	17.73	19.28	17.45	19.22	17.02	12.72	12.28	15.68	13.62	11.63
March ... ..	16.92	18.58	16.70	18.44	16.15	11.10	10.44	14.58	12.34	10.95
April ... ..	17.64	19.46	17.59	19.33	16.70	12.11	11.48	15.27	13.30	11.32
May ... ..	18.02	19.77	18.05	19.88	17.06	12.32	11.53	15.66	13.72	12.10
June ... ..	17.08	18.78	17.06	19.03	16.11	11.82	10.99	14.84	13.32	11.59
July ... ..	18.16	20.01	18.28	19.97	17.21	11.98	11.29	14.65	13.34	10.92
August ... ..	18.31	20.17	18.21	20.18	17.41	12.28	11.64	15.03	13.52	10.94
September ....	18.60	20.27	18.44	20.27	17.80	12.31	11.71	15.25	13.52	10.80
October ... ..	19.83	21.63	19.78	21.69	18.94	12.81	12.32	16.02	13.85	11.15
November ... ..	18.96	20.81	18.97	20.96	18.00	12.35	11.46	15.93	14.14	11.18
December ... ..	16.04	18.01	16.12	18.14	15.03	10.46	9.45	12.95	12.48	9.59
1991 Average ...	18.21	19.95	18.17	19.99	17.33	12.30	11.57	15.36	13.72	11.33
1992										
January ... ..	15.47	17.33	15.43	17.41	14.57	9.87	9.29	11.56	11.18	8.52
February . ....	15.67	17.46	15.51	17.63	14.78	9.89	9.40	12.52	11.03	8.09
March ... ..	15.58	17.46	15.44	17.63	14.66	10.19	9.84	13.20	10.97	8.27
April ... ..	16.95	18.80	16.76	19.22	15.99	11.16	10.82	14.75	11.91	9.07
May ... ..	17.69	19.49	17.49	19.74	16.77	12.58	12.03	16.21	13.70	10.90
June ... ..	19.14	20.87	18.78	21.38	18.23	14.35	13.40	16.53	16.19	13.63
July ... ..	18.53	20.19	18.26	20.74	17.66	14.87	14.06	18.47	16.52	13.44
August ... ..	18.10	19.71	17.84	20.19	17.28	13.90	13.23	17.16	15.19	12.82
September ... .	18.61	20.31	18.36	20.84	17.73	13.48	12.90	16.61	14.70	12.03
October ... ..	18.39	20.11	18.19	20.62	17.51	13.65	13.03	17.12	14.93	11.87
November ... ..	17.06	18.82	16.86	19.22	16.21	12.81	12.29	16.25	13.89	11.01
December ... ..	16.18	17.83	16.18	18.32	15.28	11.42	10.93	14.68	12.52	9.62
1992 Average ..	17.27	19.04	17.08	19.39	16.38	12.32	11.73	15.56	13.55	10.78
1993										
January ... ..	15.83	17.43	15.78	18.01	14.94	11.22	10.83	14.16	12.11	9.16
February ... ..	16.77	18.36	16.64	19.01	15.90	11.81	11.58	14.57	12.44	9.52
March ... ..	17.19	18.51	16.82	19.22	16.46	12.51	12.28	16.06	13.10	10.00
April ... ..	17.14	18.48	16.66	19.23	16.39	13.10	12.91	16.84	13.63	10.59
May ... ..	16.77	17.93	16.22	18.86	16.10	13.38	12.86	17.40	14.31	11.25
June ... ..	15.85	17.29	15.17	18.02	15.10	12.33	11.79	15.60	13.51	10.21
July ... ..	14.56	15.82	13.88	16.74	13.89	11.06	10.81	13.20	11.69	9.14
August ... ..	14.73	15.98	14.04	16.86	14.07	10.80	10.55	13.00	11.53	8.59

W = Withheld to avoid disclosure of individual company data

Note: Values shown for current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: The actual domestic average price represents the average price at the lease (or wellhead) at which domestic crude oil is purchased.

Sources: January 1978 through December 1982, Form EIA-182, "Domestic Crude Oil First Purchase Report"; January 1983 to present, Form EIA-182, "Domestic Crude Oil First Purchase Report."

**Table 21. FOB<sup>a</sup> Costs of Imported Crude Oil, by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries									OPEC	
	Algeria	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC <sup>b</sup>	Total OPEC <sup>c</sup>
<b>1978 Average</b>	14.12	13.61	12.65	13.24	14.05	12.70	13.82	12.38	13.35	13.28	13.31
<b>1979 Average</b>	20.53	19.03	22.93	20.27	21.69	17.28	21.70	16.90	21.10	19.27	19.88
<b>1980 Average</b>	36.67	32.17	NA	31.06	35.93	28.17	34.36	24.81	34.34	31.57	32.21
<b>1981 Average</b>	39.08	35.62	-	33.01	38.31	32.60	36.06	28.95	36.69	34.79	35.17
<b>1982 Average</b>	34.20	35.11	30.97	28.08	35.13	33.73	33.42	23.74	31.96	33.84	33.48
<b>1983 Average</b>	30.09	29.92	28.39	25.20	29.81	27.53	29.91	21.48	27.96	28.28	28.46
<b>1984 Average</b>	28.34	29.13	27.42	26.39	29.51	27.67	28.87	24.23	27.79	27.79	27.79
<b>1985 Average</b>	26.89	27.12	W	25.33	28.04	22.04	27.64	23.64	26.12	24.34	25.67
<b>1986 Average</b>	13.62	13.19	W	11.84	14.35	11.36	13.84	10.92	13.32	11.59	12.21
<b>1987 Average</b>	16.79	17.40	W	16.36	18.47	15.12	18.28	15.08	17.11	15.80	16.43
<b>1988 Average</b>	W	13.81	-	12.18	15.16	12.16	14.80	12.96	13.45	12.57	13.43
<b>1989 Average</b>	W	17.01	-	15.96	18.31	16.29	17.89	16.09	17.12	16.72	17.06
<b>1990 Average</b>	W	21.29	-	19.26	22.46	20.36	23.43	19.55	19.88	18.84	20.40
<b>1991</b>											
January ..	W	W	-	19.39	24.68	12.69	W	17.04	21.24	16.04	19.45
February ..	W	20.82	-	13.62	20.48	14.06	W	14.50	17.12	14.56	16.73
March ....	W	W	-	13.59	19.44	W	24.50	14.90	16.18	15.24	16.48
April ....	W	16.85	-	15.34	19.12	15.14	W	15.38	16.90	15.72	16.88
May .....	W	W	W	15.24	19.35	15.15	W	14.68	16.95	15.71	16.71
June .....	W	16.77	-	14.68	18.38	14.54	W	13.62	16.33	15.29	16.04
July .....	W	W	W	15.24	19.44	W	19.45	14.85	17.41	15.86	16.86
August ...	W	W	W	15.34	20.20	16.35	W	14.64	17.82	16.81	17.23
September	W	W	W	15.40	21.10	15.85	20.24	15.53	18.79	16.76	17.57
October ...	W	18.50	W	16.91	22.55	14.61	W	16.44	19.42	15.76	18.12
November ..	W	W	-	16.30	21.63	13.33	21.67	14.77	18.97	15.02	17.03
December ..	W	W	-	13.47	18.99	12.72	W	12.62	16.67	14.32	15.03
<b>1991 Average</b>	W	18.69	15.58	15.37	20.29	14.62	20.81	14.91	17.79	15.59	16.99
<b>1992</b>											
January .....	W	W	-	12.45	18.58	W	-	12.32	15.44	14.07	14.50
February ...	W	W	-	12.40	18.28	14.61	W	12.53	16.04	15.35	15.04
March .....	-	W	-	12.68	18.10	14.87	W	12.45	16.01	15.20	15.28
April ...	W	16.23	-	14.11	19.59	W	W	14.38	17.10	17.26	17.25
May .....	W	W	-	16.05	20.47	17.61	W	15.03	18.35	18.13	17.83
June .....	W	W	-	17.09	21.42	W	20.14	15.33	19.20	17.95	18.44
July .....	W	W	-	16.88	20.83	17.60	W	15.10	18.74	18.20	18.09
August .....	W	W	-	16.36	20.33	W	20.00	15.38	18.43	17.99	17.69
September ..	-	W	-	16.88	20.84	16.69	20.20	16.21	18.65	17.11	18.01
October .....	-	W	-	16.90	20.76	W	W	15.40	18.70	15.89	17.42
November ...	-	W	-	15.78	20.00	14.62	19.82	13.82	17.57	15.12	15.97
December ..	W	W	-	14.79	18.42	15.62	W	13.38	16.13	15.91	15.60
<b>1992 Average</b>	W	17.06	-	15.26	19.98	15.85	19.61	14.39	17.65	16.50	16.87
<b>1993</b>											
January .....	-	W	-	14.14	17.95	15.55	18.29	12.99	15.17	15.60	15.62
February .....	-	W	-	14.64	19.06	16.17	18.13	13.68	16.51	16.39	16.49
March ...	W	W	-	15.17	19.33	16.45	18.51	14.22	16.85	16.83	16.92
April ....	-	W	-	15.04	19.19	16.03	18.36	14.52	16.90	16.24	16.59
May .....	-	19.14	-	15.15	18.92	14.54	18.29	13.89	16.73	15.03	16.32
June .....	-	W	-	14.06	18.01	W	17.15	12.47	15.89	14.29	14.94
July .....	W	16.48	-	13.09	17.45	W	16.07	11.95	14.96	13.95	14.25
August .....	-	18.11	-	13.36	17.33	W	17.03	12.76	14.62	14.68	14.32

<sup>a</sup> FOB = Free on Board. See Glossary.

<sup>b</sup> Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar.

<sup>c</sup> Includes Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. Prior to January 1, 1993, data included Ecuador, which was then a member of OPEC.

Dashes (-) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: Prices through 1980 reflect the month of reporting; prices since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Sources: January 1978 through December 1978: Form FEA-F701-M-0, "Transfer Pricing Report"; January 1979 through September 1982: Form ERA-51, "Transfer Pricing Report"; October 1982 through June 1984: Form EP-51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 to present: Form EIA-858, "Monthly Foreign Crude Oil Acquisition Report."

**Table 22. Landed Costs of Imported Crude Oil, by Selected Country**  
(Dollars per Barrel)

Year Month	Selected Countries										OPEC	
	Algeria	Canada	Indonesia	Iran	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Other Countries	Arab OPEC <sup>a</sup>	Total OPEC <sup>b</sup>
1978 Average	14.93	14.41	14.55	13.89	13.56	14.88	13.94	14.53	12.84	14.58	14.36	14.34
1979 Average	21.88	20.22	20.63	24.21	20.77	22.97	18.95	22.97	17.65	22.86	20.79	21.29
1980 Average	37.92	30.11	33.92	NA	31.77	37.15	29.80	35.68	25.92	36.15	32.97	33.56
1981 Average	40.46	32.32	37.31	-	33.70	39.66	34.20	37.29	29.91	38.54	36.22	36.60
1982 Average	35.35	27.15	36.70	32.46	28.63	36.16	34.99	34.25	24.93	34.03	35.15	34.81
1983 Average	31.26	25.63	31.57	29.81	25.78	30.85	29.27	30.87	22.94	29.68	29.87	29.84
1984 Average	29.06	26.56	30.87	28.70	26.85	30.36	29.20	29.45	25.19	29.21	29.10	29.06
1985 Average	27.51	25.71	28.67	25.79	25.63	28.96	24.72	28.36	24.43	27.33	25.90	26.86
1986 Average	14.82	13.43	14.63	12.38	12.17	15.29	12.84	14.63	11.52	14.25	13.14	13.46
1987 Average	17.87	17.04	18.49	18.28	16.69	19.32	16.81	18.78	15.76	18.30	17.32	17.64
1988 Average	W	13.50	15.15	W	12.58	15.88	13.37	15.82	13.66	14.45	13.60	14.18
1989 Average	19.13	16.81	18.35	-	16.35	19.19	17.34	18.74	16.78	18.08	17.41	17.78
1990 Average	W	20.48	22.50	-	19.64	23.33	21.82	22.65	20.31	20.52	20.64	21.23
1991												
January	W	20.81	W	-	19.98	26.00	18.53	W	18.35	24.08	18.94	20.16
February	W	17.05	22.61	-	14.23	21.66	16.18	W	15.76	19.42	16.29	17.43
March	W	15.20	20.03	-	14.15	20.60	17.08	25.77	16.18	18.59	17.23	17.88
April	W	16.26	18.85	-	15.85	20.31	17.54	20.56	16.35	18.77	17.65	18.17
May	W	16.28	W	W	15.81	20.50	17.34	20.21	15.74	19.53	17.49	17.98
June	W	16.19	18.25	-	15.20	19.79	16.85	19.35	14.61	18.38	17.01	17.32
July	W	17.14	17.76	17.56	15.89	20.73	17.48	20.47	15.92	18.82	17.61	17.96
August	W	17.61	W	W	15.78	21.29	18.04	20.71	15.64	19.30	18.17	18.40
September	W	17.84	W	W	15.82	22.13	18.19	21.16	16.44	20.35	18.42	18.70
October	W	18.38	19.85	W	17.34	23.68	17.62	22.07	17.26	20.91	17.97	19.03
November	W	17.53	21.05	-	16.53	22.71	16.46	22.71	15.66	21.04	16.90	17.95
December	W	15.87	W	-	13.86	19.96	15.03	20.29	13.46	18.67	15.49	15.94
1991 Average	W	17.16	20.20	17.54	15.89	21.39	17.22	21.37	15.92	19.73	17.45	18.08
1992												
January	W	14.83	W	-	13.02	19.34	14.81	W	13.20	17.46	15.16	15.38
February	W	15.57	W	-	12.78	19.10	15.61	W	13.47	17.64	15.85	15.87
March	-	15.68	W	-	13.06	19.05	16.05	18.83	13.41	17.44	16.14	16.29
April	W	16.42	17.76	-	14.40	20.32	18.01	18.97	15.06	18.10	18.11	18.07
May	W	17.35	17.66	-	16.39	21.25	18.62	19.99	15.73	19.58	18.80	18.65
June	W	18.40	19.60	-	17.41	22.11	19.49	20.85	16.01	20.93	19.60	19.57
July	W	18.50	21.08	-	17.20	21.49	19.00	21.45	15.78	20.49	19.15	19.06
August	W	18.28	21.26	-	16.74	21.05	18.45	21.37	16.10	20.10	18.79	18.70
September	-	18.35	W	-	17.34	21.57	18.45	20.72	16.89	20.12	18.51	18.83
October	W	18.35	W	-	17.26	21.60	17.96	21.17	16.14	20.09	18.08	18.56
November	-	17.26	W	-	16.18	20.79	17.02	21.00	14.51	19.25	17.05	17.28
December	W	15.85	W	-	15.12	19.32	16.64	19.46	14.07	17.80	16.69	16.62
1992 Average	W	17.04	18.76	-	15.60	20.78	17.48	20.63	15.13	19.25	17.63	17.81
1993												
January	-	15.27	W	-	14.50	18.96	16.36	19.12	14.07	17.21	16.39	16.64
February	-	15.84	W	-	14.98	19.92	17.29	19.28	14.60	18.17	17.29	17.43
March	W	16.48	W	-	15.50	20.25	17.56	19.43	15.14	18.43	17.83	17.83
April	W	16.79	19.89	-	15.55	20.18	17.56	19.32	15.54	18.48	17.55	17.77
May	W	16.82	20.57	-	15.57	19.79	16.64	19.33	14.91	18.41	16.79	17.30
June	-	16.25	W	-	14.50	18.93	15.72	18.67	13.53	17.44	15.86	16.03
July	W	15.29	17.87	-	13.44	18.25	14.99	17.51	12.91	16.46	14.98	15.32
August	-	14.93	19.67	-	13.85	18.06	14.94	17.59	13.52	15.92	14.95	15.26

<sup>a</sup> Includes Algeria, Libya, Saudi Arabia, United Arab Emirates, Iraq, Kuwait, and Qatar

<sup>b</sup> Includes Algeria, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates and Venezuela. Prior to January 1, 1993, data included Ecuador, which was then a member of OPEC.

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: Prices through 1980 reflect the month of reporting; prices since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Sources: January 1978 through December 1978: Form FEA-F701-M-0, "Transfer Pricing Report"; January 1979 through September 1982: Form ERA-51, "Transfer Pricing Report"; October 1982 through June 1984: Form EP-51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 to present: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report."

**Table 23. FOB<sup>a</sup> Costs of Imported Crude Oil by API Gravity**  
(Dollars per Barrel)

Year Month	20.0° or Less	20.1° to 25.0°	25.1° to 30.0°	30.1° to 35.0°	35.1° to 40.0°	40.1° to 45.0°	45.1° or Greater
1978 Average . . . . .	11.98	11.74	12.51	13.06	13.82	14.00	14.01
1979 Average . . . . .	14.43	18.54	19.91	19.54	21.24	21.65	19.77
1980 Average . . . . .	23.09	28.76	30.72	30.31	34.33	35.39	36.13
1981 Average . . . . .	26.70	31.20	33.61	34.38	36.85	38.42	38.59
1982 Average . . . . .	23.08	25.82	31.48	33.56	34.29	34.82	34.48
1983 Average . . . . .	21.77	24.27	27.38	29.04	29.74	30.10	30.12
1984 Average . . . . .	24.10	25.31	27.22	28.55	29.18	29.40	28.02
1985 Average . . . . .	23.45	24.27	24.86	26.46	27.43	27.79	26.90
1986 Average . . . . .	10.51	10.96	12.25	12.83	13.83	14.19	13.76
1987 Average . . . . .	15.21	15.37	15.76	17.24	17.99	18.03	17.37
1988 Average . . . . .	11.92	11.65	12.48	13.82	14.38	14.89	15.25
1989 Average . . . . .	14.00	14.89	16.95	17.50	18.09	18.23	18.05
1990 Average . . . . .	15.98	18.00	20.54	20.77	22.19	22.78	22.28
1991							
January . . . . .	15.27	16.98	19.00	20.56	24.34	23.03	24.84
February . . . . .	11.50	12.40	16.07	16.57	20.55	19.08	19.88
March . . . . .	11.94	11.99	16.01	16.21	19.09	18.89	18.94
April . . . . .	11.82	13.13	16.57	17.15	18.95	19.27	19.55
May . . . . .	10.94	13.43	16.08	16.90	19.33	19.61	19.43
June . . . . .	10.72	12.88	15.70	16.87	18.42	18.09	19.44
July . . . . .	12.17	13.72	16.50	17.62	19.68	19.23	W
August . . . . .	11.53	14.08	16.72	18.02	20.19	19.26	W
September . . . . .	11.66	14.44	17.07	18.54	20.61	W	W
October . . . . .	12.78	15.28	17.07	18.87	22.07	22.39	W
November . . . . .	11.47	14.03	15.62	18.78	21.27	21.10	W
December . . . . .	10.64	11.64	13.50	16.79	18.63	18.32	W
1991 Average . . . . .	11.91	13.72	16.33	17.67	20.15	19.69	20.85
1992							
January . . . . .	9.20	11.12	14.14	16.15	17.83	18.11	W
February . . . . .	9.35	11.10	14.02	16.26	18.05	17.82	W
March . . . . .	9.51	11.70	15.02	16.69	17.79	17.85	W
April . . . . .	10.21	13.28	16.74	18.34	19.04	19.22	19.43
May . . . . .	11.30	14.73	17.91	19.12	19.85	20.32	20.23
June . . . . .	13.09	15.69	18.58	19.71	20.97	21.76	W
July . . . . .	12.13	15.49	18.34	19.32	20.42	20.83	20.93
August . . . . .	12.95	15.28	17.94	18.58	20.00	20.02	21.46
September . . . . .	13.53	15.55	18.05	18.56	20.46	20.61	W
October . . . . .	13.46	15.46	17.75	18.74	20.46	20.30	W
November . . . . .	12.51	13.74	15.84	17.41	19.28	19.82	20.41
December . . . . .	12.58	12.87	15.24	16.76	18.28	18.46	18.99
1992 Average . . . . .	11.83	13.96	16.74	18.02	19.50	19.58	20.05
1993							
January . . . . .	11.69	12.53	15.42	16.22	17.71	17.57	W
February . . . . .	12.19	13.21	16.72	17.01	18.68	18.67	18.63
March . . . . .	12.81	13.71	17.11	17.45	18.77	19.71	20.50
April . . . . .	12.60	13.90	16.78	17.38	18.82	18.92	W
May . . . . .	12.23	13.65	16.60	16.92	18.44	18.93	19.50
June . . . . .	11.18	12.46	15.97	16.19	17.54	W	W
July . . . . .	10.58	11.85	14.74	15.50	16.69	18.97	17.50
August . . . . .	11.54	12.19	14.00	15.21	16.61	W	18.20

<sup>a</sup> FOB = Free on Board. See Glossary

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Note: Prices through 1980 reflect the month of reporting; prices since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Sources: January 1978 through December 1978: Form FEA-F701-M-0, "Transfer Pricing Report"; January 1979 through September 1982: Form ERA-51, "Transfer Pricing Report"; October 1982 through June 1984: Form EP-51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 to present: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report."

**Table 24. Landed Costs of Imported Crude Oil by API Gravity**  
(Dollars per Barrel)

Year Month	20.0° or Less	20.1° to 25.0°	25.1° to 30.0°	30.1° to 35.0°	35.1° to 40.0°	40.1° to 45.0°	45.1° or Greater
1978 Average	12.75	13.11	13.76	14.10	14.69	14.87	15.16
1979 Average	15.57	20.05	20.88	21.01	22.61	23.06	21.23
1980 Average	24.54	29.65	31.83	31.73	35.81	36.85	37.57
1981 Average	27.94	32.00	34.88	35.71	38.36	39.78	39.97
1982 Average	24.17	28.46	32.62	34.76	35.43	35.78	35.81
1983 Average	23.17	24.95	28.62	30.25	30.96	31.28	31.27
1984 Average	25.08	25.97	28.38	29.58	30.16	30.16	29.05
1985 Average	24.33	24.65	26.17	27.10	28.29	28.39	27.73
1986 Average	11.30	11.49	13.28	13.59	14.99	14.80	15.37
1987 Average	16.14	15.87	17.21	18.16	18.72	18.89	18.57
1988 Average	12.75	12.11	13.54	14.35	15.21	15.74	16.24
1989 Average	14.90	15.42	17.59	17.87	18.74	19.05	19.13
1990 Average	16.82	18.54	21.59	21.18	22.47	23.47	23.41
1991							
January	16.53	17.71	20.62	20.72	24.77	24.34	26.63
February	12.87	12.96	16.23	17.76	20.92	21.07	22.26
March	13.31	12.69	16.94	17.69	19.95	20.24	20.63
April	12.87	13.76	17.56	18.24	20.00	20.37	21.04
May	12.26	14.08	16.76	18.30	20.22	20.82	21.36
June	11.80	13.77	16.60	18.01	19.59	19.65	20.69
July	13.42	14.38	17.15	18.51	20.39	20.57	21.60
August	12.71	14.84	17.69	18.99	20.89	20.55	21.77
September	13.10	15.20	17.91	19.25	21.44	W	22.32
October	13.63	15.87	17.85	19.71	22.33	23.27	24.07
November	12.54	14.73	16.31	19.18	21.94	21.96	23.21
December	11.62	12.29	14.25	17.38	19.31	19.28	19.95
1991 Average	13.06	14.41	17.17	18.65	20.86	20.88	22.15
1992							
January	10.13	11.75	14.82	16.34	18.19	18.94	20.61
February	10.41	11.89	14.72	16.66	18.38	18.55	20.03
March	10.63	12.54	15.64	17.03	18.41	18.98	19.56
April	11.27	13.81	17.40	18.45	19.26	20.28	20.31
May	12.38	15.31	18.21	19.26	20.33	20.90	21.17
June	13.94	16.31	19.33	20.28	21.46	22.43	22.19
July	13.46	16.18	19.00	19.81	21.19	21.87	21.93
August	13.95	15.92	18.49	19.37	20.82	21.33	21.71
September	14.43	16.13	18.66	19.40	21.12	21.34	22.66
October	14.63	16.11	18.65	19.31	21.10	21.10	21.94
November	13.45	14.32	16.86	18.03	20.16	20.41	20.56
December	13.48	13.47	16.06	17.50	18.74	19.41	19.57
1992 Average	12.89	14.58	17.39	18.50	20.11	20.55	20.95
1993							
January	13.07	13.09	16.19	17.13	18.49	18.50	19.00
February	13.25	13.79	17.04	17.93	19.22	19.49	19.64
March	13.94	14.48	17.55	18.17	19.50	20.41	21.29
April	13.86	14.72	17.54	18.22	19.54	20.22	20.29
May	13.44	14.56	17.33	17.63	19.30	20.12	20.64
June	12.38	13.22	16.59	16.79	18.52	18.94	19.43
July	11.73	12.67	15.55	16.12	17.58	18.60	18.46
August	12.47	12.97	14.95	15.66	17.32	18.78	18.08

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(Percent by Interval)

Year Month	20.0° or Less	20.1° to 25.0°	25.1° to 30.0°	30.1° to 35.0°	35.1° to 40.0°	40.1° to 45.0°	45.1° or Greater
1978 Average .....	1.26	3.57	7.93	38.79	31.66	13.48	3.31
1979 Average .....	1.85	3.96	8.45	38.98	30.64	13.36	2.96
1980 Average .....	1.70	6.18	9.25	38.43	27.02	13.56	3.85
1981 Average .....	2.19	8.88	9.46	37.37	26.60	12.53	2.98
1982 Average .....	3.39	14.90	11.72	35.58	23.76	8.44	2.20
1983 Average .....	3.91	20.40	15.14	24.95	23.63	7.74	4.23
1984 Average .....	6.48	20.52	11.59	21.05	25.75	8.12	6.48
1985 Average .....	7.62	20.46	11.19	27.14	24.93	4.02	4.65
1986 Average .....	5.54	19.36	14.12	27.49	25.74	3.65	4.11
1987 Average .....	4.04	19.68	16.88	26.91	24.79	3.87	3.85
1988 Average .....	3.52	18.27	15.99	30.72	24.45	4.04	3.02
1989 Average .....	2.55	14.39	16.80	36.27	23.79	3.55	2.64
1990 Average .....	3.64	14.96	18.13	34.44	23.21	2.94	2.67
1991							
January .....	3.84	17.38	20.93	37.72	16.23	1.83	2.06
February .....	3.89	15.39	21.06	36.29	20.70	1.78	.89
March .....	4.00	16.30	20.03	33.13	23.43	.64	2.46
April .....	3.27	13.94	19.39	37.96	22.34	.78	2.32
May .....	2.90	14.93	17.47	35.29	26.35	1.18	1.87
June .....	4.19	15.90	21.57	34.93	18.37	3.76	1.27
July .....	4.56	14.80	21.74	34.93	20.99	2.04	.94
August .....	4.44	16.09	21.76	34.40	20.32	1.99	.99
September .....	3.08	17.65	20.76	33.33	22.85	W	1.73
October .....	4.19	18.06	22.35	30.60	22.02	1.59	1.18
November .....	3.21	15.64	21.30	36.55	17.15	4.33	1.82
December .....	3.45	16.38	21.21	32.98	19.99	4.92	1.06
1991 Average .....	3.76	16.02	20.79	34.84	20.94	2.11	1.55
1992							
January .....	3.58	18.58	26.18	32.19	15.42	2.69	1.36
February .....	3.04	18.66	20.73	35.10	18.44	2.38	1.66
March .....	4.64	17.43	24.55	27.87	20.14	4.50	.87
April .....	2.90	18.47	21.30	33.55	19.48	3.27	1.02
May .....	4.24	17.87	19.27	32.27	20.83	4.46	1.07
June .....	4.91	17.09	22.36	28.15	23.37	3.14	.98
July .....	4.25	17.81	21.24	29.43	22.85	3.03	1.39
August .....	4.09	18.15	21.36	30.46	21.68	3.24	1.02
September .....	3.81	17.54	25.29	27.81	22.36	2.43	.76
October .....	4.83	17.46	23.20	33.36	18.60	2.18	.37
November .....	3.85	15.65	20.05	32.64	24.33	2.49	1.00
December .....	4.12	17.08	23.71	34.71	17.13	2.03	1.22
1992 Average .....	4.05	17.64	22.41	31.38	20.49	3.00	1.04
1993							
January .....	4.61	18.53	22.47	27.95	24.49	1.50	.46
February .....	4.20	18.14	19.51	35.41	17.94	3.57	1.23
March .....	4.98	18.66	20.35	28.63	23.43	2.50	1.46
April .....	3.89	19.25	19.05	34.08	20.21	2.46	1.06
May .....	4.07	17.82	20.13	30.66	22.47	3.42	1.44
June .....	5.18	18.48	19.05	32.31	22.24	1.56	1.17
July .....	4.45	20.92	22.74	27.74	21.24	1.61	1.31
August .....	5.43	20.70	20.70	26.79	23.08	1.90	1.40

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**Table 26. FOB<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams**  
(Dollars per Barrel)

Year Quarter Month	Algerian Condensate	Angolan Cabinda	Canadian Lloydminster	Cameroon Kole Marine	Ecuadorian Oriente	Mexican Isthmus	Mexican Mayan
1978 Average	W	13.32	-	W	12.87	13.24	-
1979 Average	W	20.35	-	W	27.59	20.29	21.50
1980 Average	35.81	33.24	W	35.92	34.51	32.78	28.73
1981 Average	38.38	35.55	W	37.51	32.66	36.23	30.82
1982 Average	32.58	31.86	W	33.73	32.36	32.50	25.29
1983 Average	29.86	28.14	24.54	29.03	28.22	29.41	23.99
1984 Average	27.77	27.58	24.70	28.56	28.16	29.00	25.35
1985 Average	26.57	26.30	23.79	26.86	26.12	27.25	24.23
1986 Average	13.25	13.39	12.77	13.64	13.32	13.88	10.93
1987 Average	15.66	17.31	15.12	W	16.53	17.94	15.72
1988 Average	W	14.52	11.28	14.28	12.96	14.23	11.26
1989 Average	W	17.15	W	17.46	16.26	W	14.71
1990 Average	W	W	18.50	W	W	23.39	17.29
1991 Average	W	W	13.51	W	16.04	18.55	13.02
1992							
January	W	-	W	-	W	15.58	9.93
February	W	-	W	-	14.69	15.88	10.04
March	-	W	W	W	-	15.91	10.60
1st Quarter Average	W	W	W	W	14.43	15.80	10.21
April	W	W	W	-	-	17.66	12.28
May	W	W	W	-	W	19.23	14.20
June	W	19.63	W	-	W	20.19	15.22
2nd Quarter Average	W	18.74	W	-	W	19.01	13.89
July	W	19.41	W	W	W	19.48	15.35
August	W	W	W	-	W	19.03	14.98
September	-	19.18	W	-	W	19.64	15.18
3rd Quarter Average	W	19.01	W	W	18.28	19.32	15.17
October	-	18.01	W	-	W	19.35	15.35
November	-	18.13	W	-	W	18.22	14.08
December	W	17.47	W	-	W	17.29	12.62
4th Quarter Average	W	18.10	W	-	W	18.18	14.06
1992 Average	W	18.46	W	W	17.60	17.92	13.42
1993							
January	-	16.83	W	-	W	16.27	12.31
February	-	W	W	-	W	17.64	12.95
March	W	W	W	-	W	17.82	13.32
1st Quarter Average	W	17.03	W	-	W	17.18	12.87
April	-	W	W	-	W	17.85	13.60
May	-	17.70	W	W	W	17.88	13.19
June	-	16.70	13.39	W	W	16.97	11.93
2nd Quarter Average	-	17.17	W	W	W	17.56	12.90
July	W	15.71	W	-	14.06	15.47	11.50
August	-	15.64	W	-	W	14.98	11.84

See footnotes at end of table.



**Table 26. FOB<sup>a</sup> Costs of Imported Crude Oil for Selected Crude Streams (Continued)**  
(Dollars per Barrel)

Year Quarter Month	Nigerian Brass River	Nigerian Bonny Light	Norwegian Ekofisk	Saudi Arabian Light	Saudi Arabian Heavy	United Kingdom Brent	Venezuelan Boscan
1978 Average . . . . .	14.17	14.11	13.91	12.74	12.07	-	W
1979 Average .. . . .	21.89	25.68	21.36	17.33	15.83	21.92	W
1980 Average .. . . .	35.57	37.71	35.86	27.79	26.14	33.13	18.58
1981 Average .. . . .	38.64	38.19	37.72	32.82	31.42	36.22	W
1982 Average .. . . .	35.18	35.58	34.04	34.08	31.10	33.55	19.00
1983 Average .. . . .	30.31	30.07	29.73	29.22	28.30	30.30	19.31
1984 Average .. . . .	29.82	29.67	29.17	29.11	26.52	29.25	22.24
1985 Average .. . . .	28.23	W	W	23.70	W	27.88	21.94
1986 Average .. . . .	14.07	14.02	16.23	11.79	11.00	14.07	9.44
1987 Average .. . . .	18.32	18.45	18.25	14.46	14.85	18.37	15.75
1988 Average .. . . .	15.39	15.33	14.58	12.98	11.68	14.40	12.29
1989 Average .. . . .	18.42	18.58	17.80	18.28	W	18.38	12.27
1990 Average .. . . .	23.47	22.67	W	21.72	19.13	29.33	12.15
1991 Average .. . . .	21.10	20.46	20.39	18.83	13.25	22.17	8.49
1992							
January .. . . .	-	18.49	W	W	W	-	W
February .. . . .	W	W	-	16.38	W	-	W
March .. . . .	W	18.33	W	W	W	W	W
1st Quarter Average	W	18.42	W	16.20	W	W	5.42
April .. . . .	W	19.75	W	W	W	W	W
May .. . . .	W	20.55	W	W	16.46	W	8.15
June .. . . .	W	21.55	-	W	W	W	W
2nd Quarter Average ..	W	20.51	W	W	16.36	W	8.38
July .. . . .	W	20.95	W	W	16.67	W	8.70
August .. . . .	W	20.43	W	W	W	W	W
September .. . . .	W	20.87	-	W	W	W	8.79
3rd Quarter Average .	W	20.76	W	W	16.16	W	8.61
October .. . . .	W	20.82	W	W	W	W	W
November .. . . .	W	20.06	W	W	W	19.92	W
December .. . . .	W	18.53	W	W	14.38	W	-
4th Quarter Average	W	20.06	W	W	13.86	19.55	9.37
1992 Average .. . . .	20.26	20.10	19.62	17.34	14.76	19.74	8.25
1993							
January .. . . .	17.65	17.92	-	16.16	14.26	W	W
February .. . . .	W	19.14	W	W	W	18.13	W
March .. . . .	W	19.42	W	W	W	18.51	-
1st Quarter Average . .	19.14	18.64	19.22	16.55	14.73	18.40	W
April .. . . .	19.34	19.27	-	W	W	W	-
May .. . . .	W	18.88	W	W	13.32	W	W
June .. . . .	W	18.09	-	-	W	W	8.96
2nd Quarter Average ..	19.15	18.89	W	15.90	13.42	18.41	9.51
July .. . . .	-	17.59	-	-	W	W	W
August .. . . .	-	W	-	-	W	17.03	W

<sup>a</sup> FOB = Free on Board. See Glossary

Dashes (-) = No data reported.

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Note: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: Prices through 1980 reflect the month of reporting, prices since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Sources: January 1978 through December 1978: Form FEA-F701-M-0, "Transfer Pricing Report"; January 1979 through September 1982: Form ERA-51, "Transfer Pricing Report"; October 1982 through June 1984: Form EP-51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 to present: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report."

**Table 27. Landed Costs of Imported Crude Oil for Selected Crude Streams**  
(Dollars per Barrel)

Year Quarter Month	Algerian Condensate	Angolan Cabinda	Canadian Lloydminster	Cameroon Kole Marine	Ecuadorian Oriente	Mexican Isthmus	Mexican Mayan
1978 Average	W	14.07	-	W	13.85	13.54	-
1979 Average	W	21.51	-	25.40	29.17	20.78	22.23
1980 Average	37.73	34.68	W	37.89	34.61	33.42	29.49
1981 Average	40.03	36.84	W	38.95	33.56	36.87	31.52
1982 Average	33.71	33.08	W	34.95	32.97	33.11	25.86
1983 Average	30.79	29.31	25.27	30.28	28.90	30.00	24.58
1984 Average	28.59	28.63	25.35	29.51	28.79	29.46	25.84
1985 Average	27.21	27.48	24.38	27.94	26.97	27.60	24.57
1986 Average	14.54	14.27	13.52	13.71	14.39	14.28	11.24
1987 Average	17.72	18.43	15.98	18.63	17.60	18.32	16.03
1988 Average	W	14.96	12.21	15.21	13.77	14.69	11.65
1989 Average	W	18.15	15.36	18.71	17.69	W	15.14
1990 Average	W	20.01	19.55	19.76	21.63	23.79	17.75
1991 Average	W	18.31	14.63	W	17.52	19.16	13.62
1992							
January	W	W	W	-	W	16.13	10.39
February	W	W	W	-	15.53	16.35	10.49
March	-	W	W	W	W	16.50	11.11
1st Quarter Average	W	17.91	W	W	15.50	16.33	10.68
April	W	W	W	-	W	18.09	12.63
May	W	19.07	W	-	18.26	19.46	14.61
June	W	20.21	W	-	20.27	20.61	15.61
2nd Quarter Average	W	19.25	W	-	19.12	19.38	14.28
July	W	20.38	W	W	W	19.89	15.70
August	W	19.70	W	-	19.19	19.49	15.35
September	-	20.03	W	-	19.11	20.13	15.55
3rd Quarter Average	W	20.04	W	W	19.24	19.77	15.53
October	-	20.10	W	-	W	19.85	15.77
November	-	19.75	W	-	18.36	18.62	14.49
December	W	18.43	W	-	W	17.81	13.00
4th Quarter Average	W	19.40	W	-	18.48	18.66	14.46
1992 Average	W	19.59	W	W	18.52	18.40	13.80
1993							
January	-	17.74	W	-	16.72	16.83	12.71
February	-	17.74	W	-	17.70	18.14	13.35
March	W	18.80	W	-	W	18.30	13.73
1st Quarter Average	W	18.05	W	-	17.23	17.69	13.28
April	-	18.71	W	-	W	18.48	14.07
May	-	18.80	W	W	18.27	18.53	13.69
June	-	17.77	14.54	W	16.45	17.55	12.47
2nd Quarter Average	-	18.40	W	W	17.50	18.18	13.40
July	W	17.16	13.41	-	15.83	16.06	11.93
August	-	16.73	13.91	-	15.06	15.53	12.40

See footnotes at end of table.

**Table 27. Landed Costs of Imported Crude Oil for Selected Crude Streams (Continued)**  
(Dollars per Barrel)

Year Quarter Month	Nigerian Brass River	Nigerian Bonny Light	Norwegian Ekofisk	Saudi Arabian Light	Saudi Arabian Heavy	United Kingdom Brent	Venezuelan Boscan
1978 Average ....	14.97	15.04	14.68	14.04	13.32	-	W
1979 Average ....	23.19	27.11	22.64	19.18	17.68	23.26	W
1980 Average .....	37.02	38.58	36.91	29.57	28.16	34.57	20.34
1981 Average .....	40.01	39.25	38.70	34.32	33.02	37.58	W
1982 Average .....	36.26	36.45	34.70	35.65	32.64	34.53	20.32
1983 Average .....	31.44	31.06	30.79	30.95	28.12	31.26	20.69
1984 Average .....	30.71	30.46	29.99	30.61	28.10	29.89	23.20
1985 Average ....	29.14	28.98	28.16	25.35	23.69	28.49	22.85
1986 Average .....	14.89	15.00	15.07	13.08	12.17	14.64	10.42
1987 Average .....	19.39	19.26	18.96	17.88	16.20	18.71	16.65
1988 Average .....	16.06	16.02	15.45	14.04	12.80	15.84	13.23
1989 Average .....	19.34	19.38	18.67	17.96	16.58	18.83	13.16
1990 Average .....	24.29	23.21	21.53	22.49	21.46	24.40	13.43
1991 Average .....	22.27	21.57	21.66	18.49	15.28	21.65	10.17
<b>1992</b>							
January ....	-	19.29	W	16.18	13.66	W	W
February ....	W	19.19	-	16.76	14.16	W	W
March .....	19.35	19.22	W	17.50	15.14	18.93	W
1st Quarter Average ...	19.53	19.23	W	16.81	14.36	18.82	6.71
April .....	20.67	20.43	W	19.44	17.17	18.84	W
May .....	W	21.43	21.49	19.76	17.31	19.94	9.54
June .....	W	22.22	W	20.38	18.11	20.71	W
2nd Quarter Average ....	21.76	21.30	21.09	19.91	17.54	20.04	9.98
July .....	W	21.58	21.88	19.74	17.65	21.45	9.97
August .....	W	21.10	W	19.22	17.25	21.44	W
September .....	W	21.54	W	19.30	17.26	20.72	9.78
3rd Quarter Average .	21.59	21.42	21.73	19.42	17.39	21.21	9.77
October ..	22.15	21.54	21.36	18.44	16.59	21.19	W
November .....	W	20.74	W	17.75	15.67	21.07	W
December .....	W	19.35	W	17.78	15.22	19.52	-
4th Quarter Average .....	21.45	20.82	20.71	17.98	15.76	20.78	11.11
1992 Average .....	21.25	20.85	20.96	18.54	16.10	20.68	9.65
<b>1993</b>							
January . . . . .	19.09	18.80	-	17.52	15.07	19.05	W
February .. . . .	19.98	20.07	W	18.27	15.77	19.28	W
March ... .. .	20.61	20.18	20.02	18.42	16.34	19.43	-
1st Quarter Average .....	19.91	19.52	19.95	18.11	15.69	19.31	W
April .....	20.73	20.26	-	17.93	16.12	19.60	-
May .....	W	19.65	W	17.42	15.27	19.46	W
June .....	W	18.91	W	16.82	14.41	18.98	11.20
2nd Quarter Average .. .	20.31	19.82	19.31	17.46	15.23	19.35	11.54
July .....	W	18.26	-	16.21	13.72	17.67	W
August .. . . .	W	W	-	16.39	13.81	17.71	W

Dashes (-) = No data reported.

W = Withheld to avoid disclosure of individual company data.

Note: Values for the current 2 months are preliminary. Values shown for previous months are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: Prices through 1980 reflect the month of reporting, prices since then reflect the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. Prices for crude oil can be determined at a time other than the acquisition date. See the Explanatory Notes section for additional detail.

Sources: January 1978 through December 1978: Form FEA-F701-M-0, "Transfer Pricing Report"; January 1979 through September 1982: Form ERA 51, "Transfer Pricing Report"; October 1982 through June 1984: Form EP-51, "Monthly Foreign Crude Oil Transaction Report"; July 1984 to present: Form EIA-856, "Monthly Foreign Crude Oil Acquisition Report."



# **Sales Prices of Petroleum Products**

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**Table 28. Refiner/Reseller Motor Gasoline Prices by Grade,  
PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>										
August 1993 . . . . .	78.5	66.8	71.8	60.0	79.7	66.6	88.3	72.5	75.8	63.2
July 1993 . . . . .	79.3	67.9	72.9	59.8	80.8	66.6	89.1	72.6	76.8	63.1
August 1992 . . . . .	86.5	76.0	78.3	67.8	85.6	73.8	94.1	80.4	82.0	70.9
<b>PAD District I Average</b>										
August 1993 . . . . .	73.8	72.4	69.9	59.2	79.9	66.1	89.0	72.9	75.6	63.6
July 1993 . . . . .	74.4	73.6	71.2	59.3	81.1	66.6	89.7	73.4	76.9	63.8
August 1992 . . . . .	81.3	74.3	76.8	67.4	86.3	73.4	94.9	80.7	82.1	71.5
<b>Subdistrict IA Average</b>										
August 1993 . . . . .	NA	W	73.5	60.6	82.1	67.0	91.0	73.4	78.7	64.6
July 1993 . . . . .	W	W	74.4	60.2	83.0	67.4	91.8	74.2	79.6	64.2
August 1992 . . . . .	88.2	W	82.2	69.1	91.2	75.8	99.2	83.2	87.2	73.0
<b>Connecticut</b>										
August 1993 . . . . .	-	-	73.0	61.8	82.7	67.2	93.7	74.9	79.4	66.3
July 1993 . . . . .	-	-	73.5	58.9	83.2	67.7	93.6	75.5	79.9	63.6
August 1992 . . . . .	-	-	81.3	68.5	90.5	76.1	100.9	83.8	87.4	73.0
<b>Maine</b>										
August 1993 . . . . .	-	-	79.0	59.0	86.8	63.4	93.6	70.4	82.8	61.9
July 1993 . . . . .	-	-	79.7	59.6	87.3	64.2	94.5	71.1	83.4	62.2
August 1992 . . . . .	-	-	84.6	68.5	96.0	73.3	99.4	78.5	88.8	71.0
<b>Massachusetts</b>										
August 1993 . . . . .	-	-	70.9	60.0	80.3	67.7	89.7	72.8	76.8	64.1
July 1993 . . . . .	-	-	72.3	60.4	81.8	68.2	90.8	73.9	78.0	64.4
August 1992 . . . . .	W	-	81.0	68.8	90.1	76.5	98.5	84.1	86.3	72.9
<b>New Hampshire</b>										
August 1993 . . . . .	-	-	74.6	62.7	84.5	68.6	92.9	76.3	79.7	66.5
July 1993 . . . . .	-	-	76.0	62.7	85.4	69.1	94.4	76.8	80.9	66.3
August 1992 . . . . .	-	-	83.1	71.7	93.0	75.9	101.6	84.2	87.8	74.8
<b>Rhode Island</b>										
August 1993 . . . . .	NA	-	70.4	58.9	77.2	64.6	84.1	71.1	75.3	62.9
July 1993 . . . . .	W	-	71.1	59.0	78.0	64.3	85.2	71.0	76.0	62.9
August 1992 . . . . .	-	-	81.3	68.6	87.9	73.4	95.5	81.1	86.0	72.4
<b>Vermont</b>										
August 1993 . . . . .	NA	W	78.3	66.9	85.2	72.4	92.9	79.2	81.9	70.4
July 1993 . . . . .	W	W	79.2	67.3	85.9	72.7	94.4	79.7	83.1	70.7
August 1992 . . . . .	W	W	85.2	75.7	92.2	80.4	98.8	88.8	88.8	79.3
<b>Subdistrict IB Average</b>										
August 1993 . . . . .	74.1	72.9	69.9	59.4	78.9	66.9	87.9	73.4	75.2	64.1
July 1993 . . . . .	74.5	73.8	70.9	60.0	79.8	67.8	87.9	74.4	76.1	64.8
August 1992 . . . . .	80.1	78.3	77.8	68.3	87.0	74.8	95.5	82.0	82.9	73.0
<b>Delaware</b>										
August 1993 . . . . .	-	-	66.4	58.3	74.3	63.0	85.4	71.1	71.8	61.8
July 1993 . . . . .	-	-	67.8	58.8	75.2	64.1	85.9	72.6	72.7	62.4
August 1992 . . . . .	-	-	76.4	67.8	86.2	72.1	95.8	79.7	82.3	71.2
<b>District of Columbia</b>										
August 1993 . . . . .	-	-	59.9	65.3	67.2	70.8	71.6	79.7	64.1	73.2
July 1993 . . . . .	-	-	61.8	67.0	68.3	72.6	73.3	81.2	65.9	74.8
August 1992 . . . . .	-	-	70.5	73.2	77.9	79.5	86.0	87.7	76.3	81.0
<b>Maryland</b>										
August 1993 . . . . .	-	-	67.6	60.8	78.3	66.7	84.2	73.4	73.3	65.4
July 1993 . . . . .	-	-	68.5	61.6	78.2	67.9	85.0	74.7	74.2	66.3
August 1992 . . . . .	-	-	76.1	70.3	86.9	75.5	93.8	83.4	81.7	74.8
<b>New Jersey</b>										
August 1993 . . . . .	W	NA	70.4	57.9	84.4	67.9	92.6	72.6	79.0	63.1
July 1993 . . . . .	W	NA	72.0	58.4	85.9	68.3	94.2	73.8	80.6	63.8
August 1992 . . . . .	W	W	79.7	68.3	91.2	77.4	98.5	81.5	87.4	73.7
<b>New York</b>										
August 1993 . . . . .	77.6	73.1	71.6	61.0	79.7	68.7	89.1	75.5	76.3	66.0
July 1993 . . . . .	77.8	74.7	72.3	61.4	80.1	69.6	87.8	76.4	76.8	66.6
August 1992 . . . . .	82.5	78.0	77.5	68.5	85.8	75.2	94.4	83.3	81.9	73.6
<b>Pennsylvania</b>										
August 1993 . . . . .	70.9	71.1	68.7	58.7	77.4	65.2	85.1	71.5	73.5	62.4
July 1993 . . . . .	71.4	68.5	69.7	59.3	78.5	66.0	85.8	72.0	74.6	63.0
August 1992 . . . . .	78.4	W	77.9	67.3	86.5	72.5	95.1	80.1	82.5	70.9

See footnotes at end of table.

**Table 28. Refiner/Reseller Motor Gasoline Prices by Grade,  
PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Subdistrict IC Average</b>										
August 1993 .....	74.5	W	69.1	58.7	79.9	65.5	89.2	72.1	75.2	63.0
July 1993 .....	76.6	-	70.8	58.4	81.4	65.5	90.3	72.1	76.7	62.8
August 1992 .....	82.8	W	75.3	66.0	85.2	71.8	93.8	78.4	80.7	69.7
<b>Florida</b>										
August 1993 .....	-	-	71.3	60.4	82.7	68.8	91.6	77.5	77.8	66.5
July 1993 .....	-	-	72.7	60.2	84.2	69.4	92.9	77.6	79.2	66.4
August 1992 .....	W	-	76.5	66.0	87.0	72.6	94.8	80.2	82.4	70.9
<b>Georgia</b>										
August 1993 .....	W	-	67.9	57.6	77.9	63.6	87.4	69.9	73.9	61.3
July 1993 .....	W	-	69.5	57.3	79.6	63.4	88.5	69.7	75.4	61.0
August 1992 .....	W	-	73.8	65.9	83.7	71.4	93.1	77.8	79.5	69.3
<b>North Carolina</b>										
August 1993 .....	W	-	67.0	58.0	77.4	63.5	86.7	68.6	72.4	61.1
July 1993 .....	W	-	68.7	57.5	78.5	63.3	87.4	68.3	73.9	60.7
August 1992 .....	W	-	73.9	65.4	82.9	71.0	91.5	76.4	78.8	68.4
<b>South Carolina</b>										
August 1993 .....	-	-	66.2	57.2	77.4	62.2	87.4	67.9	72.2	60.0
July 1993 .....	-	-	68.5	56.6	79.6	61.8	88.7	67.2	74.4	59.4
August 1992 .....	-	-	73.6	65.9	83.9	69.9	93.2	75.8	78.3	68.2
<b>Virginia</b>										
August 1993 .....	-	W	69.3	59.2	80.0	66.0	89.1	71.5	75.6	63.5
July 1993 .....	-	-	70.9	59.5	81.3	66.2	90.1	72.1	77.0	63.8
August 1992 .....	W	W	76.4	66.2	86.1	72.5	95.4	78.9	82.1	70.3
<b>West Virginia</b>										
August 1993 .....	W	-	74.1	61.9	83.7	68.4	90.2	74.3	78.5	65.4
July 1993 .....	W	-	75.9	62.3	85.7	68.7	91.7	74.8	80.2	65.8
August 1992 .....	W	W	79.8	69.2	89.6	74.8	96.2	81.2	84.2	72.4
<b>PAD District II Average</b>										
August 1993 .....	78.0	62.9	70.4	58.9	77.9	65.9	84.1	69.2	73.3	61.0
July 1993 .....	78.9	62.4	71.4	58.0	79.0	65.3	85.2	68.6	74.3	60.2
August 1992 .....	84.2	69.7	76.0	65.9	83.0	71.7	89.4	76.0	78.7	67.7
<b>Illinois</b>										
August 1993 .....	79.5	63.2	70.2	58.3	77.2	67.3	84.0	69.9	73.1	61.2
July 1993 .....	80.4	61.8	71.5	57.8	78.5	66.9	85.1	70.2	74.3	60.8
August 1992 .....	79.8	73.2	75.3	65.4	82.6	72.6	89.7	76.9	78.4	68.1
<b>Indiana</b>										
August 1993 .....	78.6	61.5	67.9	57.6	75.1	64.7	81.8	68.8	71.4	60.2
July 1993 .....	80.8	60.8	70.0	57.8	77.3	65.0	83.6	68.5	73.4	60.5
August 1992 .....	85.9	66.9	73.7	64.3	81.0	70.2	86.2	75.3	76.8	66.5
<b>Iowa</b>										
August 1993 .....	74.1	67.5	69.0	59.3	74.8	66.4	78.0	66.3	70.0	60.0
July 1993 .....	73.2	65.8	69.2	57.7	76.4	66.2	78.3	67.5	70.2	58.7
August 1992 .....	81.3	69.3	78.4	66.5	83.9	73.1	87.9	74.7	79.4	67.3
<b>Kansas</b>										
August 1993 .....	74.8	65.8	70.5	58.0	77.5	66.7	82.7	67.0	72.1	59.1
July 1993 .....	73.6	65.4	71.9	56.6	78.8	66.1	83.9	65.9	73.6	57.7
August 1992 .....	79.1	70.1	77.9	64.6	84.2	72.4	89.4	73.3	79.5	65.5
<b>Kentucky</b>										
August 1993 .....	84.9	W	71.2	59.2	80.1	65.7	88.0	71.0	75.8	62.4
July 1993 .....	82.2	W	72.5	59.1	81.2	65.3	89.1	70.6	76.9	62.2
August 1992 .....	86.4	W	75.2	66.7	83.3	71.9	90.5	77.9	79.1	69.3
<b>Michigan</b>										
August 1993 .....	79.5	62.7	68.9	59.3	77.1	65.4	82.3	69.5	71.9	61.5
July 1993 .....	82.2	62.3	70.3	57.9	77.7	64.2	83.7	68.5	73.3	60.2
August 1992 .....	86.0	70.7	73.7	65.9	80.9	70.2	88.3	76.2	76.6	67.8
<b>Minnesota</b>										
August 1993 .....	78.9	65.5	76.2	62.1	81.2	68.0	89.0	71.3	78.3	63.4
July 1993 .....	78.8	63.7	76.8	61.0	82.7	67.2	88.9	70.2	78.9	62.3
August 1992 .....	84.3	69.9	81.2	67.8	88.2	75.8	91.5	76.4	83.0	69.0
<b>Missouri</b>										
August 1993 .....	75.2	NA	68.1	58.6	76.4	65.8	82.6	67.7	71.0	60.6
July 1993 .....	76.0	57.0	69.0	57.9	76.6	66.6	83.3	67.9	71.8	60.0
August 1992 .....	77.9	72.3	72.7	66.3	81.1	72.0	86.9	75.2	75.6	67.9

See footnotes at end of table.



**Table 28. Refiner/Reseller Motor Gasoline Prices by Grade,  
PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Nebraska</b>										
August 1993 .....	75.7	61.0	73.4	59.5	79.1	68.4	81.0	68.4	74.7	60.3
July 1993 .....	75.3	59.5	74.2	57.9	81.0	68.1	82.5	67.5	75.6	58.8
August 1992 .....	81.9	70.0	77.9	67.7	83.9	75.3	87.7	75.6	79.5	68.5
<b>North Dakota</b>										
August 1993 .....	85.5	64.3	81.6	62.3	90.1	73.7	89.8	72.9	82.6	63.2
July 1993 .....	86.5	64.7	81.5	61.4	90.2	73.1	90.0	72.1	82.5	62.4
August 1992 .....	90.2	70.5	86.2	69.7	92.2	80.7	95.5	80.4	87.2	70.5
<b>Ohio</b>										
August 1993 .....	74.1	W	71.0	59.9	79.1	68.6	85.4	71.0	74.6	62.4
July 1993 .....	73.9	W	71.6	59.1	79.8	66.3	86.9	70.5	75.2	61.6
August 1992 .....	88.6	W	75.6	66.1	83.4	72.3	90.4	77.1	78.8	68.4
<b>Oklahoma</b>										
August 1993 .....	72.6	W	67.0	55.9	74.5	63.7	79.2	64.3	69.5	56.9
July 1993 .....	74.2	W	67.6	55.2	74.8	60.8	79.6	62.8	70.0	56.1
August 1992 .....	75.0	66.3	73.3	63.5	80.3	69.9	84.7	72.1	75.5	64.6
<b>South Dakota</b>										
August 1993 .....	85.6	65.9	79.3	62.7	84.1	72.7	88.9	73.3	80.6	64.0
July 1993 .....	86.6	65.8	79.8	61.9	84.6	71.6	90.2	72.9	81.1	63.1
August 1992 .....	91.8	74.7	87.3	70.3	85.8	74.6	99.4	80.4	88.4	71.2
<b>Tennessee</b>										
August 1993 .....	W	-	67.9	57.5	78.2	64.0	86.4	69.4	73.5	61.2
July 1993 .....	W	-	69.5	56.6	79.6	63.0	87.9	68.4	75.0	60.3
August 1992 .....	W	W	74.3	65.2	84.6	71.0	92.4	76.6	79.7	68.5
<b>Wisconsin</b>										
August 1993 .....	77.4	60.2	70.6	59.1	78.4	65.5	83.4	68.7	73.0	60.8
July 1993 .....	77.4	58.7	71.8	58.0	79.8	64.4	84.4	67.8	74.1	59.7
August 1992 .....	83.4	69.8	79.0	65.8	86.5	71.8	91.4	75.2	81.0	67.4
<b>PAD District III Average</b>										
August 1993 .....	81.2	67.0	71.1	57.0	80.3	63.6	88.1	67.7	75.7	59.5
July 1993 .....	82.4	68.1	72.3	56.9	81.4	63.3	89.0	67.4	76.8	59.3
August 1992 .....	86.0	73.2	76.9	64.2	85.3	71.1	92.2	75.0	81.0	66.7
<b>Alabama</b>										
August 1993 .....	W	-	71.6	57.9	81.2	63.9	90.3	69.6	77.2	61.3
July 1993 .....	W	-	72.4	57.0	81.8	63.2	90.2	68.7	77.7	60.4
August 1992 .....	W	-	77.5	65.9	85.6	71.6	93.7	77.9	81.8	69.1
<b>Arkansas</b>										
August 1993 .....	W	W	69.3	56.6	78.3	61.1	84.7	66.0	72.8	58.7
July 1993 .....	W	W	70.3	55.9	79.1	60.8	85.4	64.9	73.8	58.1
August 1992 .....	74.1	68.2	74.4	63.9	82.1	68.4	89.2	73.3	77.5	66.0
<b>Louisiana</b>										
August 1993 .....	76.7	-	70.1	56.0	81.2	64.3	88.5	69.6	76.2	59.8
July 1993 .....	76.9	-	71.0	57.1	81.8	64.1	88.9	68.1	76.9	60.6
August 1992 .....	85.3	-	76.0	64.5	85.3	72.1	90.5	75.9	80.6	67.9
<b>Mississippi</b>										
August 1993 .....	W	NA	68.8	56.1	77.8	61.8	86.4	67.2	73.5	58.8
July 1993 .....	W	W	69.8	55.5	79.3	61.5	87.1	64.0	74.6	57.7
August 1992 .....	W	-	75.6	63.4	83.8	69.3	90.7	73.8	79.6	65.8
<b>New Mexico</b>										
August 1993 .....	86.1	68.1	83.9	67.3	87.9	73.0	95.9	77.1	85.5	68.6
July 1993 .....	87.8	69.8	85.4	68.9	90.1	73.8	97.3	78.7	87.0	70.2
August 1992 .....	87.5	75.8	86.1	74.3	92.8	77.8	98.3	83.3	87.7	75.4
<b>Texas</b>										
August 1993 .....	76.9	65.8	70.4	56.4	80.2	63.8	87.7	66.6	75.0	58.7
July 1993 .....	78.5	65.8	71.8	56.5	81.7	63.6	89.0	67.7	76.4	58.7
August 1992 .....	82.8	68.5	76.6	63.5	85.8	71.4	92.6	74.1	80.9	65.7
<b>PAD District IV Average</b>										
August 1993 .....	79.3	65.2	77.4	64.3	84.4	69.2	89.9	72.8	80.0	66.1
July 1993 .....	80.1	67.9	77.6	65.3	84.3	68.9	89.9	73.8	80.2	67.0
August 1992 .....	91.6	78.9	88.0	77.0	92.5	79.8	99.6	84.4	90.3	78.4
<b>Colorado</b>										
August 1993 .....	83.0	65.2	77.8	62.2	86.6	67.7	95.3	71.0	81.6	64.1
July 1993 .....	83.5	65.4	77.8	61.5	86.8	67.3	95.1	70.5	81.5	63.4
August 1992 .....	92.7	77.8	86.7	75.1	93.3	79.4	101.0	82.6	89.8	76.9

See footnotes at end of table.

**Table 28. Refiner/Reseller Motor Gasoline Prices by Grade,  
PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Idaho</b>										
August 1993 . . .	76.3	67.4	75.6	67.4	NA	NA	83.6	76.0	76.7	68.8
July 1993 . . .	77.1	68.9	75.9	68.8	84.4	73.5	84.6	77.2	77.2	69.9
August 1992 . . .	89.2	79.9	88.7	79.8	90.4	W	98.8	88.3	89.5	80.7
<b>Montana</b>										
August 1993 . . .	83.7	67.3	83.3	67.1	W	-	93.7	75.5	84.6	68.4
July 1993 . . .	85.1	70.9	84.1	70.7	W	-	93.9	79.0	85.5	72.0
August 1992 . . .	94.6	81.1	93.3	79.9	W	-	101.9	87.5	94.7	81.1
<b>Utah</b>										
August 1993 . . .	76.0	63.1	73.5	63.3	77.6	69.5	83.8	71.5	76.1	65.3
July 1993 . . .	75.4	64.5	73.1	65.0	76.9	72.5	83.5	73.3	75.8	66.9
August 1992 . . .	87.6	74.8	85.1	74.5	89.5	81.4	94.7	82.5	87.3	76.1
<b>Wyoming</b>										
August 1993 . . .	82.2	65.6	81.6	65.3	83.5	68.6	91.2	73.6	82.9	66.8
July 1993 . . .	83.3	68.4	83.4	65.6	83.5	W	93.8	74.1	84.6	67.1
August 1992 . . .	95.1	79.0	95.0	78.1	W	79.2	103.7	85.2	96.1	79.3
<b>PAD District V Average</b>										
August 1993 . . .	77.7	67.5	78.9	66.1	82.6	73.0	95.7	80.7	81.8	69.4
July 1993 . . .	78.4	68.5	80.0	66.8	83.5	73.6	96.6	81.2	82.8	70.1
August 1992 . . .	85.2	76.0	87.5	74.6	92.0	82.2	102.8	90.0	90.0	78.1
<b>Alaska</b>										
August 1993 . . .	97.0	84.6	100.3	77.2	-	-	108.0	87.6	100.9	78.5
July 1993 . . .	95.9	84.7	101.5	78.9	-	-	107.0	87.1	101.8	79.8
August 1992 . . .	106.9	89.2	109.2	82.3	-	-	112.9	90.9	109.4	83.4
<b>Arizona</b>										
August 1993 . . .	80.2	71.4	83.7	72.6	87.0	76.5	99.4	84.9	85.5	74.3
July 1993 . . .	80.5	71.5	84.0	72.5	87.6	75.0	99.3	84.8	85.8	74.3
August 1992 . . .	83.0	75.2	86.4	75.5	90.9	81.4	101.8	88.4	87.9	77.3
<b>California</b>										
August 1993 . . .	W	W	74.9	64.6	81.7	72.6	92.6	79.6	79.0	68.4
July 1993 . . .	W	W	76.3	65.2	82.6	73.3	93.8	80.0	80.2	69.1
August 1992 . . .	W	82.5	85.7	73.8	92.0	82.1	101.7	89.8	89.4	78.0
<b>Hawaii</b>										
August 1993 . . .	-	-	99.8	90.7	102.2	97.1	116.4	104.1	104.3	96.0
July 1993 . . .	-	-	100.4	91.1	103.4	97.6	117.0	104.4	105.0	96.4
August 1992 . . .	-	-	95.7	90.3	102.9	96.6	112.1	103.8	101.0	95.6
<b>Nevada</b>										
August 1993 . . .	83.8	65.0	80.3	66.1	83.2	71.5	98.7	79.3	83.5	68.8
July 1993 . . .	84.6	69.1	80.6	64.9	83.5	70.5	99.2	78.9	83.7	67.6
August 1992 . . .	90.0	79.2	86.1	73.2	87.4	78.3	102.4	87.2	88.8	75.8
<b>Oregon</b>										
August 1993 . . .	80.2	67.5	83.8	68.2	W	W	99.8	83.2	84.8	69.9
July 1993 . . .	80.7	68.0	84.4	69.1	W	-	99.4	84.9	85.2	70.8
August 1992 . . .	87.3	75.5	92.4	75.6	W	W	108.2	90.0	92.8	77.2
<b>Washington</b>										
August 1993 . . .	72.8	65.3	77.4	66.4	85.2	73.2	94.3	79.8	78.9	68.6
July 1993 . . .	74.2	66.7	78.9	67.8	85.5	71.9	95.9	80.7	80.3	69.9
August 1992 . . .	83.8	78.1	87.8	76.5	W	W	102.9	90.2	89.0	78.5

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 29. Refiner/Reseller Motor Gasoline Prices to End Users  
by Grade, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users
<b>U.S. Average</b>										
August 1993 ... ..	78.6	77.9	72.1	69.2	80.4	73.4	89.3	79.4	76.3	71.5
July 1993 ... ..	79.7	78.1	73.3	69.4	81.5	73.8	90.2	79.1	77.5	71.7
August 1992 ... ..	86.6	86.0	78.6	76.1	86.3	79.4	95.0	85.2	82.5	78.3
<b>PAD District I Average</b>										
August 1993 ... ..	73.5	73.9	70.5	65.2	81.0	71.2	90.2	77.9	76.5	68.8
July 1993 ... ..	73.9	74.7	71.9	65.4	82.3	71.6	91.0	77.5	77.8	69.0
August 1992 ... ..	81.4	81.2	77.3	71.8	87.3	78.0	96.1	84.0	82.8	75.6
<b>Subdistrict 1A Average</b>										
August 1993 ... ..	-	NA	74.5	62.6	84.1	69.0	92.7	75.0	80.0	66.7
July 1993 ... ..	-	W	75.3	63.1	84.9	69.7	93.4	74.5	80.8	67.1
August 1992 ... ..	-	88.2	83.3	70.0	93.3	75.4	100.9	80.5	88.6	73.2
<b>Connecticut</b>										
August 1993 ... ..	-	-	74.1	60.8	85.3	67.3	95.4	72.2	80.9	64.8
July 1993 ... ..	-	-	74.6	60.9	86.0	67.0	95.5	72.2	81.3	65.1
August 1992 ... ..	-	-	81.7	72.4	91.7	77.2	101.9	80.9	88.0	76.0
<b>Maine</b>										
August 1993 ... ..	-	-	80.0	67.9	88.9	75.8	96.4	78.8	84.1	72.4
July 1993 ... ..	-	-	80.7	68.9	89.4	77.4	97.1	79.5	84.7	73.5
August 1992 ... ..	-	-	85.3	76.0	98.3	78.3	101.1	85.2	89.8	78.3
<b>Massachusetts</b>										
August 1993 ... ..	-	-	72.3	59.8	82.4	65.5	91.6	71.6	78.4	63.2
July 1993 ... ..	-	-	73.4	59.9	83.6	65.5	92.6	71.1	79.4	63.5
August 1992 ... ..	-	W	82.9	66.9	92.9	73.4	100.9	78.3	88.4	70.4
<b>New Hampshire</b>										
August 1993 ... ..	-	-	75.1	63.4	86.0	71.2	94.1	78.6	80.3	69.2
July 1993 ... ..	-	-	76.2	66.2	86.9	72.4	94.9	78.8	81.3	70.7
August 1992 ... ..	-	-	83.9	70.7	94.4	72.4	102.3	81.3	88.8	72.1
<b>Rhode Island</b>										
August 1993 ... ..	-	NA	70.7	63.6	77.9	68.5	84.4	79.7	75.6	69.3
July 1993 ... ..	-	W	71.8	60.2	79.0	66.9	85.6	75.8	76.7	64.8
August 1992 ... ..	-	-	82.1	66.5	89.2	71.5	96.2	77.3	86.9	69.7
<b>Vermont</b>										
August 1993 ... ..	-	NA	79.4	71.0	88.2	75.3	95.7	80.8	83.4	74.0
July 1993 ... ..	-	W	80.6	71.4	88.8	76.1	96.3	83.0	84.8	74.4
August 1992 ... ..	-	W	87.5	74.6	95.3	81.2	102.1	83.7	91.4	77.5
<b>Subdistrict 1B Average</b>										
August 1993 ... ..	72.6	74.7	70.6	65.0	80.2	71.4	89.2	77.8	76.2	68.7
July 1993 ... ..	72.7	75.2	71.7	65.2	81.3	71.8	89.3	78.0	77.2	69.1
August 1992 ... ..	W	80.0	78.6	72.0	88.7	77.9	97.6	83.7	84.1	75.7
<b>Delaware</b>										
August 1993 ... ..	-	-	67.1	62.4	75.6	69.3	86.0	79.3	72.7	66.7
July 1993 ... ..	-	-	68.3	63.9	76.3	70.9	86.8	77.8	73.5	68.2
August 1992 ... ..	-	-	77.2	69.6	87.2	79.4	96.7	85.0	83.3	74.5
<b>District of Columbia</b>										
August 1993 ... ..	-	-	W	57.6	W	58.2	W	64.8	W	59.5
July 1993 ... ..	-	-	W	58.9	W	60.5	W	65.8	W	60.8
August 1992 ... ..	-	-	W	64.5	W	67.7	W	80.9	W	70.6
<b>Maryland</b>										
August 1993 ... ..	-	-	69.7	62.4	79.9	73.6	86.1	77.2	75.5	67.2
July 1993 ... ..	-	-	70.7	63.1	81.2	73.9	87.4	77.5	76.5	68.0
August 1992 ... ..	-	-	77.6	71.4	89.2	80.5	96.3	84.2	83.6	75.6
<b>New Jersey</b>										
August 1993 ... ..	-	W	71.4	62.5	86.6	69.5	94.8	74.9	80.6	67.1
July 1993 ... ..	-	W	73.3	62.7	88.1	69.9	96.4	74.9	82.3	67.1
August 1992 ... ..	-	W	81.7	70.1	94.1	77.7	102.6	82.3	90.0	75.6
<b>New York</b>										
August 1993 ... ..	81.7	76.9	72.5	63.8	82.0	67.9	90.7	74.4	77.5	68.8
July 1993 ... ..	81.8	77.2	73.4	64.5	82.8	67.8	89.2	75.3	78.1	67.4
August 1992 ... ..	W	W	78.3	71.3	87.9	74.7	96.4	81.3	83.0	74.0
<b>Pennsylvania</b>										
August 1993 ... ..	W	71.7	68.7	68.7	77.8	74.4	85.3	83.2	73.7	72.5
July 1993 ... ..	W	72.4	69.9	68.1	79.0	75.0	86.2	82.6	74.9	72.3
August 1992 ... ..	-	78.4	78.3	74.6	87.5	79.8	95.8	89.0	83.1	78.1

See footnotes at end of table.

**Table 29. Refiner/Reseller Motor Gasoline Prices to End Users  
by Grade, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users
<b>Subdistrict IC Average</b>										
August 1993 .....	W	W	69.5	65.7	80.7	71.8	90.3	78.6	75.9	69.3
July 1993 .....	W	W	71.3	66.0	82.2	72.1	91.5	77.7	77.5	69.3
August 1992 .....	W	W	75.5	72.0	85.7	78.7	94.6	84.9	81.1	75.9
<b>Florida</b>										
August 1993 .....	-	-	71.7	66.7	84.0	71.1	92.8	76.8	78.6	69.6
July 1993 .....	-	-	73.3	65.9	85.4	71.1	94.3	76.2	80.1	69.0
August 1992 .....	W	-	76.8	72.0	87.8	76.2	95.6	82.9	82.8	75.5
<b>Georgia</b>										
August 1993 .....	W	-	68.1	66.7	78.5	70.4	88.1	81.8	74.3	70.5
July 1993 .....	W	-	69.7	67.8	80.1	72.2	89.4	80.4	75.9	70.9
August 1992 .....	W	-	73.9	72.8	84.0	78.0	93.7	85.7	79.7	76.6
<b>North Carolina</b>										
August 1993 .....	-	W	67.4	63.3	78.0	69.4	88.0	76.1	73.1	66.4
July 1993 .....	-	W	69.3	63.9	79.1	70.2	88.9	74.5	74.7	66.6
August 1992 .....	W	-	74.3	70.1	83.2	79.0	92.1	83.3	79.2	73.8
<b>South Carolina</b>										
August 1993 .....	-	-	66.1	68.3	77.6	75.3	88.3	79.5	72.2	71.7
July 1993 .....	-	-	68.5	67.5	80.4	69.5	89.9	77.9	74.8	70.0
August 1992 .....	-	-	73.9	69.3	84.6	75.5	94.0	82.7	78.7	72.8
<b>Virginia</b>										
August 1993 .....	-	-	69.8	64.1	80.7	73.8	90.1	78.5	76.3	68.8
July 1993 .....	-	-	71.6	65.0	81.9	75.8	91.2	79.1	77.7	70.0
August 1992 .....	-	W	76.7	74.3	86.6	82.8	96.2	89.1	82.5	79.0
<b>West Virginia</b>										
August 1993 .....	-	W	75.1	65.5	84.9	72.1	91.8	79.0	79.6	69.2
July 1993 .....	-	W	77.0	65.6	87.1	70.9	93.5	77.8	81.5	68.7
August 1992 .....	-	W	80.6	73.5	90.7	78.1	97.9	85.8	85.1	76.7
<b>PAD District II Average</b>										
August 1993 .....	77.9	78.1	70.5	69.7	78.2	75.7	84.6	77.7	73.5	71.6
July 1993 .....	79.7	78.3	71.6	69.9	79.3	76.5	85.8	78.3	74.6	72.1
August 1992 .....	83.9	84.5	76.0	76.6	83.2	81.6	89.8	85.0	78.7	78.5
<b>Illinois</b>										
August 1993 .....	79.1	80.7	70.2	69.7	77.4	75.1	84.4	78.0	73.3	71.6
July 1993 .....	80.2	80.9	71.6	69.6	78.7	76.7	85.6	80.1	74.5	72.7
August 1992 .....	79.5	80.0	75.2	75.4	82.7	81.5	90.4	84.4	78.5	77.9
<b>Indiana</b>										
August 1993 .....	76.9	79.2	67.9	67.7	75.6	71.6	82.0	79.8	71.5	70.9
July 1993 .....	81.3	80.6	70.4	66.9	77.7	73.9	84.3	76.8	73.9	70.6
August 1992 .....	86.5	85.8	73.8	73.4	81.2	79.7	86.1	87.2	76.6	77.5
<b>Iowa</b>										
August 1993 .....	74.0	74.3	68.6	71.8	74.8	73.6	77.9	80.3	69.7	72.2
July 1993 .....	73.1	73.4	68.8	71.9	75.5	83.4	78.3	79.1	69.9	72.9
August 1992 .....	83.1	79.7	78.1	79.8	83.5	86.9	88.1	86.5	79.2	80.3
<b>Kansas</b>										
August 1993 .....	72.1	W	70.5	70.7	77.5	77.0	83.4	75.9	72.2	71.4
July 1993 .....	73.6	-	72.0	70.9	78.8	77.1	84.6	75.8	73.7	71.5
August 1992 .....	80.4	78.8	77.7	79.5	83.8	89.4	89.8	82.7	79.5	80.0
<b>Kentucky</b>										
August 1993 .....	W	W	72.0	65.2	81.3	73.3	89.3	78.6	76.8	69.2
July 1993 .....	W	W	73.3	65.8	82.5	73.1	90.6	78.9	77.9	69.6
August 1992 .....	W	W	75.6	71.8	83.2	83.4	91.1	86.1	79.4	77.0
<b>Michigan</b>										
August 1993 .....	80.3	78.6	69.0	67.4	77.3	74.2	82.8	74.3	72.2	69.3
July 1993 .....	85.0	80.6	70.4	69.3	78.0	73.9	84.1	76.7	73.5	71.2
August 1992 .....	86.1	85.8	73.6	76.1	80.9	80.2	88.6	83.7	76.5	77.6
<b>Minnesota</b>										
August 1993 .....	79.5	77.2	76.9	72.2	81.7	79.9	89.5	81.0	79.0	74.3
July 1993 .....	78.9	78.4	77.1	73.9	82.5	83.5	89.4	82.2	79.3	76.4
August 1992 .....	83.3	86.2	81.3	80.5	89.3	84.9	91.5	91.1	83.1	82.1
<b>Missouri</b>										
August 1993 .....	75.0	75.5	68.0	NA	76.3	NA	83.0	NA	71.0	NA
July 1993 .....	76.6	74.9	69.0	68.9	76.7	75.8	83.9	75.0	72.0	70.8
August 1992 .....	77.4	82.8	72.4	76.0	80.7	84.9	86.8	90.1	75.4	78.0

See footnotes at end of table.

**Table 29. Refiner/Reseller Motor Gasoline Prices to End Users  
by Grade, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users
<b>Nebraska</b>										
August 1993 . . .	78.6	70.3	73.7	71.9	79.1	78.8	81.6	73.6	75.1	72.7
July 1993 ... . .	78.9	71.1	74.8	70.8	81.3	79.4	83.4	72.2	76.3	71.7
August 1992 ...	82.8	78.6	78.4	74.6	84.7	W	87.7	W	80.1	76.2
<b>North Dakota</b>										
August 1993 . . .	85.7	85.4	83.3	78.9	91.6	W	90.2	88.8	84.2	79.9
July 1993 .. . . .	87.9	85.1	83.5	78.5	93.1	W	90.8	87.0	84.6	79.1
August 1992 .....	91.2	89.4	87.8	84.4	94.0	91.4	96.3	93.6	88.8	85.3
<b>Ohio</b>										
August 1993 .....	72.6	W	71.2	68.0	79.5	75.8	85.9	79.7	74.8	71.3
July 1993 .. . . .	71.6	W	71.9	68.7	80.2	76.9	87.3	80.7	75.4	72.2
August 1992 . . .	81.2	96.4	75.8	72.6	83.9	78.3	91.2	81.5	79.1	75.0
<b>Oklahoma</b>										
August 1993 .. .	72.6	-	67.4	62.1	74.8	64.4	80.3	66.0	70.1	62.8
July 1993 ... . .	74.2	-	68.0	62.1	75.0	65.3	80.4	68.3	70.4	63.1
August 1992 . . .	75.1	73.6	73.6	69.2	80.7	70.9	85.3	75.2	75.9	70.0
<b>South Dakota</b>										
August 1993 .. .	85.7	81.6	80.8	73.3	83.9	85.0	91.5	83.3	82.0	75.4
July 1993 ... ..	86.8	82.5	81.1	74.4	84.9	82.3	93.2	84.5	82.4	76.2
August 1992 .. .	92.3	90.3	87.5	86.8	84.4	92.4	99.9	98.2	88.4	88.2
<b>Tennessee</b>										
August 1993 .... .	W	-	68.4	61.1	79.0	67.1	87.4	71.9	74.2	64.3
July 1993 ..... .	W	-	70.1	61.3	80.4	67.3	89.0	72.5	75.7	64.6
August 1992 ....	W	-	74.7	69.3	85.2	74.8	93.3	80.1	80.2	72.2
<b>Wisconsin</b>										
August 1993 ..... .	77.3	77.4	70.3	73.1	77.6	85.8	83.5	82.7	72.6	75.3
July 1993 ..... .	80.3	75.6	71.7	72.7	79.6	82.1	84.4	84.2	74.1	74.6
August 1992 ....	83.6	83.3	79.1	78.4	87.1	83.6	91.7	87.7	81.3	79.8
<b>PAD District III Average</b>										
August 1993 .. .	81.3	80.0	71.6	66.6	81.0	70.4	89.4	75.7	76.4	68.7
July 1993 .... .	82.9	78.6	73.0	68.1	82.2	70.5	90.2	75.6	77.6	68.4
August 1992 ....	86.0	85.8	77.4	73.1	86.1	75.7	93.6	80.9	81.7	75.0
<b>Alabama</b>										
August 1993 ..... .	W	-	72.4	64.4	81.8	75.0	91.7	78.4	78.1	69.0
July 1993 ..... .	W	-	73.1	65.2	82.5	74.1	91.6	77.1	78.6	69.0
August 1992 ..... .	W	-	77.9	74.3	86.4	79.4	95.5	85.0	82.4	77.8
<b>Arkansas</b>										
August 1993 . . .	W	-	70.7	62.5	80.4	66.6	89.0	70.1	74.6	64.5
July 1993 ..... .	W	-	71.7	63.5	81.1	66.6	89.3	72.5	75.5	65.6
August 1992 .... .	75.0	W	74.6	72.0	82.5	75.8	90.0	82.1	77.9	73.8
<b>Louisiana</b>										
August 1993 ..... .	76.7	-	70.9	64.1	82.0	72.2	90.3	76.7	77.1	68.5
July 1993 .... .	76.9	-	71.8	65.1	82.6	71.8	90.6	76.9	77.9	68.9
August 1992 ..... .	W	W	76.1	75.0	85.6	77.7	92.2	79.9	81.0	76.6
<b>Mississippi</b>										
August 1993 ... .	W	NA	69.1	66.1	78.4	72.3	87.5	77.4	74.1	69.1
July 1993 . . . . .	W	W	70.2	65.9	79.5	75.3	88.4	77.5	75.2	69.5
August 1992 ..... .	W	-	75.9	74.2	84.2	77.5	91.9	84.4	80.1	76.5
<b>New Mexico</b>										
August 1993 . . .	86.4	83.3	84.5	79.7	89.5	W	97.6	85.1	86.1	80.7
July 1993 .. . . .	88.1	83.8	86.3	78.5	91.6	W	98.9	86.7	87.9	80.0
August 1992 .. . . .	87.8	86.4	87.0	80.9	92.9	83.1	99.4	92.3	88.5	83.2
<b>Texas</b>										
August 1993 ..... .	77.0	76.2	70.7	67.1	80.8	67.8	88.5	74.7	75.6	68.2
July 1993 ..... .	78.6	77.6	72.4	65.8	82.3	68.1	89.8	73.0	77.1	66.9
August 1992 ..... .	82.9	79.6	77.2	71.2	86.7	73.9	93.9	77.2	81.8	72.5
<b>PAD District IV Average</b>										
August 1993 . . .	80.1	77.2	77.7	75.3	85.1	68.2	90.7	82.9	80.6	76.3
July 1993 ..... .	80.6	78.7	77.8	76.2	84.7	66.8	90.6	83.2	80.6	77.3
August 1992 ..... .	92.3	90.0	88.3	86.1	92.8	84.3	100.6	93.2	90.8	87.8
<b>Colorado</b>										
August 1993 ..... .	84.3	78.9	78.2	73.1	87.6	66.1	96.3	81.7	82.3	74.1
July 1993 ..... .	84.2	82.1	78.1	74.3	87.6	65.6	96.2	80.2	82.2	75.5
August 1992 ..... .	92.9	91.8	87.1	83.9	93.6	81.2	102.4	90.2	90.3	85.9

See footnotes at end of table.

**Table 29. Refiner/Reseller Motor Gasoline Prices to End Users  
by Grade, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium		Motor Gasoline Average	
	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users	Through Company Outlets	Other End Users
<b>Idaho</b>										
August 1993 . . . . .	75.7	77.4	75.6	75.5	NA	W	83.1	86.7	76.6	76.9
July 1993 . . . . .	76.6	78.0	75.8	76.4	84.4	-	84.1	87.0	77.0	77.6
August 1992 . . . . .	89.9	88.3	89.8	86.3	83.6	94.4	99.9	96.3	90.6	87.6
<b>Montana</b>										
August 1993 . . . . .	85.1	81.1	85.0	79.7	W	W	94.7	89.2	86.4	80.7
July 1993 . . . . .	85.5	84.3	85.0	81.5	W	W	94.4	91.1	86.5	82.9
August 1992 . . . . .	96.1	93.0	94.7	90.0	W	W	101.9	101.9	96.0	92.0
<b>Utah</b>										
August 1993 . . . . .	77.1	NA	73.8	70.9	77.6	-	84.4	NA	76.5	NA
July 1993 . . . . .	76.4	72.3	73.4	71.0	76.9	-	83.9	78.7	76.2	72.7
August 1992 . . . . .	88.7	81.2	85.5	81.6	89.5	W	95.4	87.8	87.8	82.7
<b>Wyoming</b>										
August 1993 . . . . .	84.6	72.8	82.8	76.7	83.9	W	92.2	84.1	84.3	76.7
July 1993 . . . . .	85.8	74.4	84.1	80.1	83.3	W	94.2	90.4	85.6	79.8
August 1992 . . . . .	96.7	91.1	95.9	91.5	W	-	105.8	97.6	97.2	92.3
<b>PAD District V Average</b>										
August 1993 . . . . .	77.5	78.6	79.8	74.2	83.3	78.0	97.3	87.0	82.8	76.7
July 1993 . . . . .	78.6	77.6	81.2	74.2	84.5	77.2	98.5	86.1	84.0	76.4
August 1992 . . . . .	85.3	84.2	88.6	80.4	93.0	83.5	104.3	91.1	91.2	82.3
<b>Alaska</b>										
August 1993 . . . . .	97.2	95.1	103.3	92.1	-	-	110.6	89.8	103.9	92.0
July 1993 . . . . .	95.7	88.6	103.3	96.3	-	-	109.3	93.8	103.5	96.2
August 1992 . . . . .	104.6	NA	112.1	101.8	-	-	114.6	105.0	111.5	103.1
<b>Arizona</b>										
August 1993 . . . . .	80.3	77.1	84.7	71.1	88.8	W	100.1	81.5	86.4	72.4
July 1993 . . . . .	80.8	74.6	85.1	71.5	88.7	74.3	100.0	79.3	86.8	72.3
August 1992 . . . . .	84.0	74.9	87.5	77.2	90.9	-	102.8	87.7	89.0	77.7
<b>California</b>										
August 1993 . . . . .	W	-	75.5	72.2	82.2	78.3	94.1	86.0	79.8	75.3
July 1993 . . . . .	W	-	77.3	72.0	83.6	77.3	95.8	84.9	81.5	74.9
August 1992 . . . . .	W	W	87.1	77.9	93.0	82.8	103.4	90.1	90.9	80.3
<b>Hawaii</b>										
August 1993 . . . . .	-	-	107.2	80.8	111.3	77.5	124.9	94.3	112.2	84.0
July 1993 . . . . .	-	-	108.4	78.9	113.2	78.6	125.8	93.3	113.5	82.6
August 1992 . . . . .	-	-	102.8	79.8	114.8	81.6	120.0	92.3	108.9	83.2
<b>Nevada</b>										
August 1993 . . . . .	82.0	NA	81.8	72.7	84.0	73.5	99.8	82.1	85.0	73.7
July 1993 . . . . .	83.1	87.5	82.6	71.0	84.4	72.4	100.4	81.3	85.7	72.2
August 1992 . . . . .	88.5	93.5	87.3	79.1	87.9	76.8	103.3	85.3	90.1	79.6
<b>Oregon</b>										
August 1993 . . . . .	80.7	78.4	84.8	78.6	W	-	101.0	92.2	85.9	79.7
July 1993 . . . . .	81.5	77.8	85.7	78.3	W	-	100.8	90.9	86.5	79.2
August 1992 . . . . .	87.4	86.9	93.2	86.0	W	W	109.1	97.9	93.6	87.0
<b>Washington</b>										
August 1993 . . . . .	72.2	78.3	77.7	74.6	84.8	W	95.0	86.4	79.2	76.6
July 1993 . . . . .	73.9	76.6	79.3	75.9	85.4	W	96.6	88.1	80.7	77.1
August 1992 . . . . .	83.6	84.7	88.3	84.2	-	W	103.6	94.9	89.4	85.7

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 30. Refiner/Reseller Total Motor Gasoline Prices  
by Seller, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 ..	77.6	63.1	64.3	74.6	63.2	57.7	76.8	63.1	62.9	76.0	72.8	64.0
July 1993 .....	78.8	63.8	64.3	76.2	62.4	56.8	78.1	63.4	62.7	77.1	72.9	64.0
August 1992 ..	83.3	70.2	71.9	81.2	72.7	65.4	82.8	70.9	70.6	82.3	79.5	71.8
<b>PAD District I Average</b>												
August 1993 ..	77.9	59.8	64.4	74.1	62.4	56.9	77.2	60.7	63.7	76.1	70.4	63.6
July 1993 .....	79.3	60.3	64.6	75.7	62.2	56.0	78.7	61.0	63.8	77.4	70.4	63.7
August 1992 ..	82.9	68.2	72.0	80.2	69.0	65.0	82.5	68.5	71.3	82.9	77.2	72.1
<b>Subdistrict IA Average</b>												
August 1993 ..	82.6	59.5	65.5	-	W	57.7	82.6	58.9	65.2	79.6	68.9	63.6
July 1993 .....	83.6	58.5	65.7	-	W	56.6	83.6	58.2	65.3	80.4	69.3	62.2
August 1992 ..	90.8	69.7	74.5	-	W	W	90.8	67.6	73.9	88.2	74.7	71.4
<b>Connecticut</b>												
August 1993 ..	W	62.7	66.3	-	W	W	W	61.2	66.0	80.1	65.6	67.4
July 1993 ..	W	61.1	66.7	-	W	W	W	59.5	66.4	80.5	66.8	58.7
August 1992 ..	W	73.5	74.2	-	W	W	W	72.8	74.0	87.5	77.2	70.9
<b>Maine</b>												
August 1993 ..	-	W	60.0	-	W	W	-	57.1	59.8	84.1	73.6	65.6
July 1993 .....	-	W	60.9	-	W	W	-	57.2	60.8	84.7	74.5	63.8
August 1992 ....	-	W	70.3	-	W	W	-	69.0	70.1	89.8	79.4	72.8
<b>Massachusetts</b>												
August 1993 ..	82.5	58.6	67.0	-	W	W	82.5	58.5	66.6	77.5	65.5	59.3
July 1993 .....	83.7	57.6	66.4	-	W	W	83.7	57.9	65.9	78.4	65.6	60.7
August 1992 .....	91.6	67.7	75.9	-	W	W	91.6	66.3	75.3	87.6	71.6	68.6
<b>New Hampshire</b>												
August 1993 ....	81.9	W	65.1	-	W	W	81.9	W	64.7	80.0	73.6	68.3
July 1993 .....	83.0	W	65.6	-	W	W	83.0	55.3	65.2	81.1	72.6	67.3
August 1992 .....	W	64.9	74.0	-	W	W	W	65.0	73.4	88.8	77.8	76.8
<b>Rhode Island</b>												
August 1993 .....	W	W	64.7	-	W	W	77.8	58.5	64.0	75.1	73.0	60.3
July 1993 .....	W	W	65.2	-	W	W	78.1	58.1	64.6	76.4	67.1	58.8
August 1992 ...	87.5	W	75.1	-	W	W	87.5	68.3	73.2	86.7	70.5	69.7
<b>Vermont</b>												
August 1993 ..	-	-	W	-	W	W	-	W	66.3	83.4	74.1	72.1
July 1993 .....	-	-	W	-	W	W	-	W	W	84.8	74.6	72.3
August 1992 .....	-	W	W	-	-	W	-	W	74.9	91.4	77.7	80.7
<b>Subdistrict IB Average</b>												
August 1993 ..	77.9	W	65.4	75.2	64.5	58.2	77.4	61.7	64.7	75.4	70.3	62.3
July 1993 .....	78.9	W	66.4	76.4	63.6	57.0	78.5	62.4	65.4	76.3	70.4	62.8
August 1992 ..	85.2	W	W	81.2	70.0	66.3	84.4	70.0	73.5	83.9	76.8	71.5
<b>Delaware</b>												
August 1993 .....	W	57.9	62.3	-	-	W	W	57.9	61.4	71.8	68.0	64.0
July 1993 .....	W	W	63.5	-	-	W	W	W	61.8	72.5	69.4	65.6
August 1992 ...	W	W	71.7	-	-	64.8	W	W	71.2	82.7	76.2	71.3
<b>District of Columbia</b>												
August 1993 .....	-	W	73.9	-	-	-	-	W	73.9	W	60.7	60.0
July 1993 .....	-	W	75.3	-	-	W	-	W	75.3	W	60.7	61.7
August 1992 ...	-	W	81.8	-	-	W	-	W	81.5	W	71.2	W
<b>Maryland</b>												
August 1993 ...	-	57.8	W	NA	W	W	NA	57.8	65.9	75.5	69.1	63.6
July 1993 .....	-	60.1	66.7	NA	W	W	NA	59.6	66.7	76.5	69.4	64.2
August 1992 ...	-	67.6	75.3	-	W	75.2	-	67.2	75.3	83.6	76.6	72.9
<b>New Jersey</b>												
August 1993 .....	82.8	59.0	66.4	W	W	55.9	82.4	59.6	65.4	77.5	70.9	58.0
July 1993 .....	84.7	60.1	67.8	W	W	54.3	84.4	60.5	66.3	78.7	70.1	57.8
August 1992 .....	91.6	69.4	76.5	W	W	63.8	91.4	68.7	74.9	87.5	77.0	70.2
<b>New York</b>												
August 1993 .....	77.7	62.2	67.9	W	W	57.5	76.0	61.8	66.8	78.5	67.2	63.7
July 1993 .....	77.5	63.8	68.5	W	W	56.8	76.2	63.4	67.4	79.3	67.7	64.2
August 1992 .....	83.0	72.1	74.7	W	W	65.4	81.4	69.8	74.1	84.3	74.4	72.1
<b>Pennsylvania</b>												
August 1993 .....	74.9	60.5	61.8	79.9	67.4	58.1	75.9	65.0	61.4	72.2	74.3	65.4
July 1993 .....	76.3	61.4	62.7	81.1	65.6	56.8	77.3	64.2	62.0	73.3	74.4	65.9
August 1992 ...	83.0	70.8	71.2	85.8	71.8	65.4	83.6	71.5	70.6	82.7	80.4	71.9

See footnotes at end of table

**Table 30. Refiner/Reseller Total Motor Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
Subdistrict IC Average												
August 1993 ..	77.3	59.9	63.1	73.4	62.7	55.7	76.7	60.4	62.3	75.5	70.8	64.7
July 1993 .. ..	79.1	60.1	62.7	75.2	61.6	54.9	78.4	60.4	61.9	77.0	70.7	65.1
August 1992 .. ..	80.9	67.2	69.2	79.6	68.9	63.8	80.7	67.5	68.6	81.3	78.0	72.8
Florida												
August 1993 ..	80.5	59.2	67.9	75.6	W	56.3	80.0	59.4	66.6	77.5	72.1	65.8
July 1993 .. ..	82.1	59.1	67.6	77.3	W	55.5	81.6	59.1	66.3	78.9	71.2	67.2
August 1992 .. .	81.6	67.6	71.3	81.2	W	64.3	81.5	67.6	70.5	83.9	78.5	73.0
Georgia												
August 1993 .. .	73.4	59.3	61.1	72.0	W	55.2	73.2	59.3	60.3	74.8	72.1	63.4
July 1993 .. . .	74.8	59.7	60.5	73.9	-	54.7	74.7	59.7	59.9	76.4	72.5	63.5
August 1992 .. .	77.4	69.1	67.9	76.5	-	63.5	77.3	69.1	67.3	81.0	77.6	73.9
North Carolina												
August 1993 .. .	73.0	58.4	59.4	W	W	55.6	72.2	58.4	59.1	73.3	66.9	64.7
July 1993 .. . .	75.2	57.7	58.7	W	W	54.0	74.3	57.7	58.3	74.8	67.1	65.2
August 1992 .. . .	80.2	64.1	66.9	W	-	63.1	79.5	64.1	66.6	79.2	77.0	72.0
South Carolina												
August 1993 .. .	69.4	60.0	59.3	W	-	55.0	69.2	60.0	58.7	73.8	72.8	62.7
July 1993 .. . .	71.7	59.3	58.5	W	W	54.0	71.5	59.2	58.1	76.4	70.9	62.1
August 1992 .. . .	76.7	66.2	W	W	-	63.0	76.5	66.2	66.6	80.0	74.1	71.6
Virginia												
August 1993 .. .	82.9	59.5	63.7	W	59.1	55.9	78.0	59.4	62.9	75.8	70.3	65.9
July 1993 .. . .	84.2	61.3	63.8	W	58.8	55.0	79.8	60.1	63.0	77.1	71.3	67.3
August 1992 .. .	87.0	68.6	70.5	W	W	63.9	84.3	68.0	69.9	81.8	80.1	72.4
West Virginia												
August 1993 .. . .	83.3	70.7	63.1	W	W	56.5	81.8	69.0	61.8	76.7	69.3	69.6
July 1993 .. . .	85.7	70.0	63.0	W	W	56.3	83.6	68.2	61.8	78.7	69.0	70.5
August 1992 .. . .	88.7	77.8	70.8	W	W	W	86.5	75.7	69.8	82.9	77.3	76.4
PAD District II Average												
August 1993 .. . .	74.6	63.2	61.0	70.3	61.1	57.4	73.4	63.1	60.0	73.6	72.8	63.5
July 1993 .. . . .	75.5	64.4	60.2	72.2	60.8	56.1	74.6	64.2	59.1	74.6	73.1	62.9
August 1992 .. . .	79.1	70.1	67.7	76.3	69.4	64.6	78.3	70.0	66.9	79.1	79.4	70.2
Illinois												
August 1993 .. .	74.4	59.6	61.8	W	W	57.1	73.0	59.5	61.0	73.4	72.6	61.9
July 1993 .. . . .	75.3	59.1	61.1	W	NA	56.4	74.1	59.2	60.5	74.8	73.5	61.7
August 1992 .. . .	78.3	66.5	67.9	W	W	64.7	77.6	66.6	67.4	79.2	78.5	70.7
Indiana												
August 1993 .. . .	70.9	57.8	59.7	W	W	57.1	70.1	57.7	59.3	72.5	71.4	62.7
July 1993 .. . . .	73.6	57.4	59.6	W	W	56.5	72.9	57.3	59.1	74.6	71.1	64.5
August 1992 .. . . .	76.2	65.8	66.6	W	W	63.7	75.4	65.8	66.0	77.7	78.1	68.7
Iowa												
August 1993 .. . .	69.4	W	60.3	67.9	-	57.7	68.3	W	59.1	70.0	72.4	62.4
July 1993 .. . . .	69.1	W	59.1	68.2	-	55.8	68.4	W	57.7	70.1	73.1	61.4
August 1992 .. . .	80.5	W	67.6	78.3	-	65.1	78.8	W	66.6	79.2	80.5	69.1
Kansas												
August 1993 .. . . .	71.2	W	60.1	69.1	W	57.0	70.0	59.5	58.0	73.2	72.7	63.4
July 1993 .. . . .	72.9	58.9	58.6	71.1	W	55.1	71.8	58.6	56.3	74.5	72.9	62.7
August 1992 .. . .	78.6	W	66.8	75.9	W	63.9	77.1	66.7	64.9	80.5	80.8	69.2
Kentucky												
August 1993 .. . .	78.4	65.5	61.3	74.5	-	56.1	78.1	65.5	60.8	76.1	70.0	65.7
July 1993 .. . . .	79.7	66.7	60.8	75.9	-	56.7	79.2	66.7	60.5	77.2	70.2	66.0
August 1992 .. . .	79.4	73.8	68.4	79.0	-	62.2	79.4	73.8	67.7	78.4	77.7	72.4
Michigan												
August 1993 .. . .	71.5	63.3	61.1	W	W	57.6	70.5	63.2	60.6	74.4	71.8	64.6
July 1993 .. . . .	72.1	65.2	59.9	W	W	56.3	72.3	65.1	59.4	75.0	73.3	63.1
August 1992 .. . .	75.2	69.8	67.3	W	-	65.6	74.6	69.8	67.0	78.3	79.8	70.9
Ohio												
August 1993 .. . .	61.5	63.6	79.1	W	60.2	78.2	61.6	62.3	79.6	74.7	65.4	
July 1993 .. . . .	61.0	62.4	79.4	W	59.0	78.5	60.9	61.1	79.8	76.9	64.5	
August 1992 .. . .	67.4	69.5	85.4	W	65.7	83.3	67.0	68.0	83.1	82.8	71.5	
Pennsylvania												
August 1993 .. . .	W	61.0	68.5	W	57.5	71.8	W	60.1	70.6	NA	61.4	
July 1993 .. . . .	W	60.1	70.3	W	55.7	72.4	61.3	58.8	71.7	71.5	62.0	
August 1992 .. . .	68.1	68.0	75.1	-	64.8	76.9	68.1	67.0	74.7	78.8	69.2	



**Table 30. Refiner/Reseller Total Motor Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>												
August 1993 . . .	W	W	60.7	71.7	W	58.0	72.9	58.4	69.3	75.5	73.1	62.6
July 1993 .... ..	W	W	59.0	72.9	W	56.0	75.2	58.4	57.6	76.5	72.2	62.0
August 1992 . . .	W	W	68.2	78.8	-	66.0	80.1	W	67.1	80.1	76.2	71.7
<b>North Dakota</b>												
August 1993 . . .	85.3	W	65.4	-	-	60.1	85.3	W	62.4	84.2	80.0	65.2
July 1993 .... .	86.3	63.9	64.3	W	-	58.5	85.9	63.9	61.3	84.5	79.2	64.8
August 1992 ....	91.2	W	72.0	W	-	67.6	90.8	W	69.7	88.7	85.4	72.2
<b>Ohio</b>												
August 1993 .. .	76.0	66.1	62.4	W	W	57.8	75.4	66.2	62.0	72.8	74.4	63.7
July 1993 .... ..	76.5	67.5	61.8	W	W	57.2	76.0	67.7	61.5	73.6	74.6	62.1
August 1992 ....	79.9	72.2	68.6	W	W	65.1	79.5	72.3	68.4	78.4	76.3	68.0
<b>Oklahoma</b>												
August 1993 .. .	70.8	58.0	56.4	69.3	W	55.6	70.3	57.9	55.9	69.9	65.1	60.7
July 1993 .....	71.7	58.7	56.3	72.6	W	54.9	72.0	58.5	55.6	69.6	64.8	58.2
August 1992 .....	77.6	65.6	64.3	76.0	66.7	62.6	77.1	65.6	63.5	75.3	71.1	68.5
<b>South Dakota</b>												
August 1993 .....	W	W	63.6	W	W	60.7	76.5	58.3	62.3	82.2	75.5	67.7
July 1993 .. .	W	W	62.2	W	-	59.1	76.9	W	60.9	82.6	76.2	68.2
August 1992 .....	W	W	71.0	W	NA	68.2	W	W	69.7	88.5	88.3	75.8
<b>Tennessee</b>												
August 1993 ....	77.1	60.1	60.2	73.5	55.7	55.7	75.8	59.2	59.5	73.0	64.9	66.3
July 1993 . . .	78.4	59.4	59.3	74.6	56.4	54.2	77.1	58.8	58.7	74.8	65.4	64.9
August 1992 . . .	82.7	66.0	67.8	80.0	67.7	63.1	81.8	66.3	67.1	78.9	73.2	71.8
<b>Wisconsin</b>												
August 1993 ... ..	71.5	59.2	60.5	W	W	57.5	71.4	61.0	59.5	73.1	75.7	63.2
July 1993 .....	72.1	58.1	59.3	W	W	56.1	72.0	57.8	58.3	74.7	75.1	62.4
August 1992 .....	81.2	67.4	67.6	W	W	65.0	80.1	66.2	66.9	82.0	80.0	68.5
<b>PAD District III Average</b>												
August 1993 .....	79.3	60.9	60.4	75.6	55.8	54.7	77.8	59.2	58.2	75.6	69.8	62.8
July 1993 . . .	80.7	61.0	59.7	77.3	54.4	54.6	79.4	58.8	57.9	76.7	69.6	63.2
August 1992 . . .	84.1	66.3	66.5	81.2	65.1	63.0	83.1	66.0	65.4	80.6	75.9	70.1
<b>Alabama</b>												
August 1993 ....	77.2	57.5	59.7	73.3	W	55.7	76.4	67.5	59.0	78.4	70.4	68.6
July 1993 . . .	78.9	57.8	58.7	75.2	W	54.6	78.1	67.8	58.0	78.7	70.5	68.3
August 1992 .....	82.6	66.2	67.1	80.5	W	63.8	82.0	66.2	66.5	82.5	79.4	76.4
<b>Arkansas</b>												
August 1993 .....	78.2	W	59.0	W	W	55.0	75.3	57.3	57.3	74.5	64.6	61.3
July 1993 .... .	79.3	W	58.0	W	W	54.5	76.7	57.6	56.6	75.3	65.7	60.8
August 1992 .....	85.5	65.0	66.5	W	W	63.1	80.3	64.9	65.3	77.0	74.2	67.4
<b>Louisiana</b>												
August 1993 .....	80.3	57.5	60.8	76.4	62.6	54.4	79.5	57.7	58.7	76.2	69.7	64.9
July 1993 .. .	81.0	57.7	60.9	77.7	61.8	55.0	80.4	58.0	59.3	77.0	70.1	66.1
August 1992 ... ..	85.0	64.3	66.8	82.4	70.4	63.4	84.6	64.8	65.9	78.8	78.2	75.0
<b>Mississippi</b>												
August 1993 .....	W	58.0	58.5	76.1	55.2	54.4	75.0	56.3	57.2	74.0	69.9	64.4
July 1993 .....	W	59.0	56.8	76.7	53.6	54.1	75.7	55.6	56.1	75.1	70.4	63.5
August 1992 ....	W	65.4	65.2	79.9	63.7	62.8	80.0	64.6	64.5	80.2	77.3	69.4
<b>New Mexico</b>												
August 1993 ... .	85.4	74.9	69.2	90.3	69.8	64.3	88.9	73.9	67.1	85.0	81.3	74.1
July 1993 .....	87.8	76.5	71.4	91.9	72.5	66.1	90.6	75.7	69.0	86.8	80.5	74.4
August 1992 .....	87.7	W	75.5	92.2	74.0	72.7	90.8	75.7	74.3	87.3	83.6	81.1
<b>Texas</b>												
August 1993 .. .	79.3	61.9	60.3	74.4	55.1	54.1	77.3	58.9	57.5	73.7	69.7	61.3
July 1993 .....	80.8	61.7	59.9	76.1	W	53.9	79.0	57.8	57.3	75.2	68.8	62.0
August 1992 .....	84.1	66.2	66.0	80.5	64.5	62.2	82.8	65.7	64.6	80.6	73.2	68.6
<b>PAD District IV Average</b>												
August 1993 .....	80.6	64.8	65.9	81.6	65.7	64.0	81.1	65.2	65.2	80.3	76.7	68.5
July 1993 . . .	80.3	67.5	67.4	82.2	68.0	64.0	81.1	67.7	66.1	80.3	77.6	69.3
August 1992 ... ..	90.2	78.2	78.2	90.2	85.4	76.4	90.2	83.0	77.6	91.2	88.1	81.2

See footnotes at end of table.

**Table 30. Refiner/Reseller Total Motor Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>												
August 1993 .. ..	83.0	W	64.9	81.9	W	60.9	82.4	W	63.3	82.1	74.4	65.9
July 1993 .. .. .	82.4	W	64.5	82.3	W	59.3	82.4	W	62.4	81.9	75.7	66.0
August 1992 .. ..	90.2	74.0	78.1	89.8	W	74.0	90.0	75.7	76.3	90.6	86.3	78.8
<b>Idaho</b>												
August 1993 .. ..	-	W	67.7	W	-	66.8	W	W	67.4	76.6	77.0	72.7
July 1993 .. .. .	-	W	68.9	W	-	67.9	W	W	68.6	77.0	77.7	73.6
August 1992 .. ..	W	W	79.7	W	-	79.1	92.0	W	79.5	90.5	87.7	83.4
<b>Montana</b>												
August 1993 .. ..	-	W	68.3	W	NA	67.7	W	NA	68.1	86.5	81.3	69.4
July 1993 .. .. .	-	W	72.3	W	NA	71.8	W	NA	72.1	86.5	83.1	71.6
August 1992 .. ..	W	W	80.6	W	109.8	80.1	W	108.6	80.4	98.0	91.2	82.9
<b>Utah</b>												
August 1993 .. ..	75.1	64.4	64.4	W	W	63.6	75.0	64.2	64.2	77.1	NA	68.8
July 1993 .. .. .	75.1	66.7	66.7	W	W	64.2	75.1	66.6	65.9	76.6	73.6	69.9
August 1992 .. ..	88.7	W	76.1	W	W	74.5	88.7	77.3	75.6	87.4	83.6	79.1
<b>Wyoming</b>												
August 1993 .. ..	W	71.1	66.2	81.5	W	64.8	80.3	70.3	65.6	85.1	77.0	70.4
July 1993 .. .. .	W	73.4	67.9	84.0	W	65.0	83.1	73.0	66.5	86.1	80.1	69.0
August 1992 .. ..	W	84.2	78.0	95.6	W	77.7	93.8	81.3	77.9	97.9	93.0	82.6
<b>PAD District V Average</b>												
August 1993 .. ..	81.9	70.2	71.2	80.6	74.3	63.0	81.5	71.1	69.8	84.5	77.4	67.4
July 1993 .. .. .	83.4	69.3	72.5	82.2	72.1	60.6	83.1	69.9	70.4	85.4	77.2	68.3
August 1992 .. ..	91.4	74.5	80.8	90.5	78.9	67.8	91.2	76.0	78.6	91.2	84.1	75.6
<b>Alaska</b>												
August 1993 .. ..	W	W	76.9	100.7	W	W	99.9	W	75.0	NA	100.1	85.9
July 1993 .. .. .	W	W	77.0	100.3	74.7	W	99.6	75.5	74.5	118.4	104.0	90.2
August 1992 .. ..	W	W	82.2	105.1	98.2	W	104.1	98.2	79.7	NA	108.2	95.0
<b>Arizona</b>												
August 1993 .. ..	86.0	71.8	74.9	W	W	67.2	86.4	72.7	73.9	86.4	72.4	76.1
July 1993 .. .. .	86.1	71.7	74.8	W	W	65.9	86.4	71.1	73.7	87.0	72.6	76.2
August 1992 .. ..	88.7	74.6	78.6	W	74.8	69.5	88.8	74.7	77.2	89.1	78.5	78.1
<b>California</b>												
August 1993 .. ..	81.6	69.1	71.0	75.7	W	61.7	79.8	69.0	69.4	79.8	76.0	63.9
July 1993 .. .. .	83.3	67.9	72.4	77.6	W	59.0	81.6	67.8	69.9	81.1	75.7	64.6
August 1992 .. ..	92.5	73.2	81.9	87.3	W	65.9	91.0	72.1	78.9	90.6	82.9	72.3
<b>Hawaii</b>												
August 1993 .. ..	W	W	W	W	W	W	107.0	W	95.7	116.7	98.8	105.1
July 1993 .. .. .	W	W	W	W	W	W	107.4	W	96.1	118.7	97.8	105.8
August 1992 .. ..	W	W	W	W	W	W	108.7	W	95.3	W	110.1	107.2
<b>Nevada</b>												
August 1993 .. ..	77.8	70.0	69.2	W	W	67.7	77.4	70.1	69.0	86.5	74.2	67.9
July 1993 .. .. .	W	68.5	68.9	W	W	64.9	78.2	68.0	68.1	87.2	72.6	64.8
August 1992 .. ..	84.4	76.5	76.5	W	W	71.8	84.1	76.6	75.6	91.7	80.1	76.8
<b>Oregon</b>												
August 1993 .. ..	86.2	65.9	69.6	W	W	62.6	86.8	69.2	68.5	85.6	80.0	76.9
July 1993 .. .. .	87.0	68.1	71.3	W	W	60.9	87.6	68.3	69.5	86.1	79.5	76.7
August 1992 .. ..	94.6	75.6	76.5	W	W	73.7	95.8	81.4	76.2	92.8	87.3	81.1
<b>Washington</b>												
August 1993 .. ..	76.8	65.3	68.6	W	-	64.7	77.8	65.3	68.2	81.0	77.1	71.2
July 1993 .. .. .	79.1	67.9	70.2	W	W	64.3	80.0	67.8	69.5	81.7	77.6	71.9
August 1992 .. ..	87.9	75.9	78.2	W	W	74.7	88.8	75.9	77.8	90.2	86.6	80.5

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Refiners and Gas Plant Operators: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers: Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 31. Refiner/Reseller Ledged Regular Gasoline Prices  
by Seller, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 .....	72.6	74.7	66.4	83.7	W	64.4	76.2	74.4	65.8	79.4	77.9	69.9
July 1993 .....	74.5	75.7	68.1	84.4	W	64.5	77.8	75.3	66.9	80.3	78.1	71.0
August 1992 .....	83.6	80.8	75.7	90.1	NA	73.2	85.7	77.0	74.9	87.0	86.2	79.4
<b>PAD District I Average</b>												
August 1993 .....	-	W	W	-	-	W	-	W	73.1	73.5	NA	NA
July 1993 .....	-	W	W	-	-	-	-	W	W	73.9	NA	NA
August 1992 .....	-	W	W	-	-	W	-	W	70.8	81.4	80.0	NA
<b>Subdistrict IA Average</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	NA	W
July 1993 .....	-	-	-	-	-	-	-	-	-	-	W	W
August 1992 .....	-	-	-	-	-	-	-	-	-	-	NA	W
<b>Connecticut</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Maine</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Massachusetts</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	W	-
<b>New Hampshire</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Rhode Island</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	NA	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	W	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Vermont</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	NA	W
July 1993 .....	-	-	-	-	-	-	-	-	-	-	W	W
August 1992 .....	-	-	-	-	-	-	-	-	-	-	W	W
<b>Subdistrict IB Average</b>												
August 1993 .....	-	W	W	-	-	-	-	W	W	NA	NA	NA
July 1993 .....	-	W	W	-	-	-	-	W	W	NA	NA	NA
August 1992 .....	-	W	W	-	-	-	-	W	W	W	NA	NA
<b>Delaware</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>District of Columbia</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Maryland</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>New Jersey</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	W	NA
July 1993 .....	-	-	-	-	-	-	-	-	-	-	W	NA
August 1992 .....	-	-	-	-	-	-	-	-	-	-	W	W
<b>New York</b>												
August 1993 .....	-	W	W	-	-	-	-	W	W	NA	NA	NA
July 1993 .....	-	W	W	-	-	-	-	W	W	NA	NA	NA
August 1992 .....	-	W	W	-	-	-	-	W	W	W	W	W
<b>Pennsylvania</b>												
August 1993 .....	-	W	W	-	-	-	-	W	W	W	NA	W
July 1993 .....	-	W	W	-	-	-	-	W	W	W	NA	W
August 1992 .....	-	W	W	-	-	-	-	W	W	-	77.9	-

See footnotes at end of table.

**Table 31. Refiner/Reseller Leaded Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Subdistrict IC Average</b>												
August 1993 .. .	-	W	-	-	-	W	-	W	W	W	W	-
July 1993 .. .	-	W	-	-	-	-	-	W	-	W	W	-
August 1992 .. .	-	W	-	-	-	W	-	W	W	W	W	W
<b>Florida</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .. .	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .. .	-	-	-	-	-	-	-	-	-	W	-	-
<b>Georgia</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	W	-	-
July 1993 .. .	-	-	-	-	-	-	-	-	-	W	-	-
August 1992 .. .	-	-	-	-	-	-	-	-	-	W	-	-
<b>North Carolina</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	-	W	-
July 1993 .. .	-	-	-	-	-	-	-	-	-	-	W	-
August 1992 .. .	-	-	-	-	-	-	-	-	-	W	-	-
<b>South Carolina</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .. .	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .. .	-	-	-	-	-	-	-	-	-	-	-	-
<b>Virginia</b>												
August 1993 .. .	-	-	-	-	-	W	-	-	W	-	-	-
July 1993 .. .	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .. .	-	-	-	-	-	-	-	-	-	-	W	W
<b>West Virginia</b>												
August 1993 .. .	-	W	-	-	-	-	-	W	-	-	-	-
July 1993 .. .	-	W	-	-	-	-	-	W	-	-	-	-
August 1992 .. .	-	W	-	-	-	W	-	W	W	-	-	-
<b>PAD District II Average</b>												
August 1993 .. .	W	W	66.9	W	-	60.6	77.4	W	61.8	77.9	78.1	64.1
July 1993 .. .	W	W	67.1	W	-	59.8	77.7	W	61.3	79.8	78.3	63.8
August 1992 .. .	W	W	70.3	81.2	-	67.7	81.9	W	68.2	84.0	84.5	71.9
<b>Illinois</b>												
August 1993 .. .	-	-	-	-	-	W	-	-	W	79.1	80.7	W
July 1993 .. .	-	-	-	-	-	W	-	-	W	80.2	80.9	63.1
August 1992 .. .	-	-	-	-	-	W	-	-	W	79.5	80.0	78.5
<b>Indiana</b>												
August 1993 .. .	-	W	-	-	-	W	-	W	W	76.9	79.3	74.9
July 1993 .. .	-	W	-	-	-	W	-	W	W	81.3	80.6	75.0
August 1992 .. .	-	W	-	-	-	W	-	W	W	86.5	85.8	71.6
<b>Iowa</b>												
August 1993 .. .	-	-	-	W	-	-	W	-	-	74.2	74.3	67.5
July 1993 .. .	-	-	-	W	-	-	W	-	-	73.4	73.4	65.8
August 1992 .. .	-	-	-	W	-	-	W	-	-	83.2	79.7	69.3
<b>Kansas</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	72.1	W	65.8
July 1993 .. .	-	-	-	-	-	W	-	-	W	73.6	-	NA
August 1992 .. .	-	-	-	W	-	68.1	W	-	68.1	80.2	78.8	71.0
<b>Kentucky</b>												
August 1993 .. .	-	W	W	W	-	W	W	W	W	W	-	-
July 1993 .. .	-	W	W	W	-	W	W	W	W	W	-	-
August 1992 .. .	-	W	W	W	-	W	W	W	W	W	-	-
<b>Michigan</b>												
August 1993 .. .	-	-	W	-	-	W	-	-	W	80.3	78.6	65.8
July 1993 .. .	-	-	W	-	-	W	-	-	W	85.0	80.6	66.5
August 1992 .. .	-	-	65.1	W	-	W	W	-	67.4	86.9	85.8	75.3
<b>Minnesota</b>												
August 1993 .. .	W	-	-	W	-	-	W	-	-	78.2	77.2	65.5
July 1993 .. .	W	-	-	W	-	-	W	-	-	78.3	78.4	63.7
August 1992 .. .	W	-	-	W	-	-	W	-	-	83.4	86.2	69.9
<b>Missouri</b>												
August 1993 .. .	-	-	-	-	-	-	-	-	-	75.0	75.5	NA
July 1993 .. .	-	-	-	-	-	-	-	-	-	76.6	74.9	57.0
August 1992 .. .	-	-	-	W	-	W	W	-	W	77.6	82.8	72.4

See footnotes at end of table.

**Table 31. Refiner/Reseller Ledged Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>												
August 1993	-	-	W	W	-	W	W	-	60.5	79.1	70.3	61.3
July 1993	-	-	W	W	-	W	W	-	59.1	79.4	71.1	59.9
August 1992	-	-	W	W	-	72.1	W	-	72.2	82.9	78.6	69.0
<b>North Dakota</b>												
August 1993	-	-	W	-	-	W	-	-	61.9	85.7	85.4	70.7
July 1993	-	-	W	W	-	W	W	-	61.7	88.0	85.1	71.2
August 1992	W	-	W	W	-	W	W	-	69.5	91.1	89.4	72.9
<b>Ohio</b>												
August 1993	-	W	W	-	-	-	-	W	W	NA	W	-
July 1993	-	W	W	-	-	-	-	W	W	NA	W	W
August 1992	-	W	W	-	-	-	-	W	W	81.2	NA	-
<b>Oklahoma</b>												
August 1993	-	-	-	-	-	W	-	-	W	72.6	-	-
July 1993	-	-	-	-	-	W	-	-	W	74.2	-	-
August 1992	W	-	W	-	-	64.8	W	-	64.8	75.1	73.6	69.1
<b>South Dakota</b>												
August 1993	-	-	W	-	-	64.8	-	-	64.3	85.7	NA	68.4
July 1993	-	-	W	-	-	64.8	-	-	64.6	86.8	NA	68.1
August 1992	-	-	W	-	-	74.1	-	-	73.4	92.3	90.3	77.5
<b>Tennessee</b>												
August 1993	-	-	-	-	-	-	-	-	-	W	-	-
July 1993	-	-	-	-	-	-	-	-	-	W	-	-
August 1992	-	-	-	-	-	W	-	-	W	W	-	-
<b>Wisconsin</b>												
August 1993	-	-	-	-	-	-	-	-	-	77.3	77.4	60.2
July 1993	-	-	-	-	-	-	-	-	-	80.3	75.6	58.7
August 1992	-	-	-	-	-	-	-	-	-	83.6	83.3	69.8
<b>PAD District III Average</b>												
August 1993	W	-	67.3	89.9	-	65.4	89.9	-	66.0	79.5	80.0	69.5
July 1993	W	-	70.0	91.7	-	66.1	91.6	-	67.3	81.4	78.6	70.3
August 1992	W	W	74.3	88.5	W	70.0	87.7	76.4	71.5	85.5	85.9	82.4
<b>Alabama</b>												
August 1993	-	-	-	-	-	-	-	-	-	W	-	-
July 1993	-	-	-	-	-	-	-	-	-	W	-	-
August 1992	-	-	-	-	-	-	-	-	-	W	-	-
<b>Arkansas</b>												
August 1993	-	-	-	-	-	W	-	-	W	W	-	W
July 1993	-	-	-	-	-	W	-	-	W	W	-	W
August 1992	-	-	-	-	-	W	-	-	W	75.0	W	W
<b>Louisiana</b>												
August 1993	-	-	-	-	-	-	-	-	-	78.7	-	-
July 1993	-	-	-	-	-	-	-	-	-	76.9	-	-
August 1992	-	-	-	-	-	-	-	-	-	W	W	-
<b>Mississippi</b>												
August 1993	-	-	-	-	-	-	-	-	-	W	NA	NA
July 1993	-	-	-	-	-	-	-	-	-	W	W	W
August 1992	-	-	-	-	-	-	-	-	-	W	-	-
<b>New Mexico</b>												
August 1993	W	-	67.7	89.7	-	65.6	89.6	-	66.2	85.2	83.3	74.9
July 1993	W	-	70.8	91.6	-	67.0	91.6	-	68.1	87.1	83.8	76.2
August 1992	W	W	75.6	90.2	W	72.6	90.2	W	73.7	87.0	86.6	83.0
<b>Texas</b>												
August 1993	-	-	66.2	W	-	64.7	W	-	65.4	75.9	76.2	67.6
July 1993	-	-	68.6	W	-	62.7	W	-	65.3	77.7	77.6	68.9
August 1992	W	-	72.2	W	W	66.2	82.1	W	68.3	83.1	W	75.6
<b>PAD District IV Average</b>												
August 1993	W	W	65.4	82.2	W	65.0	81.1	69.1	65.3	80.0	77.2	68.7
July 1993	W	72.4	67.7	83.0	W	66.1	81.9	71.1	66.9	80.5	78.7	70.5
August 1992	92.1	W	77.9	91.4	W	77.4	91.8	80.9	77.6	92.5	90.0	82.1

See footnotes at end of table.

**Table 31. Refiner/Reseller Ledged Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>												
August 1993 .....	W	-	W	84.1	-	62.3	84.0	-	62.9	84.4	78.9	67.5
July 1993 .....	W	-	65.7	84.5	-	61.8	84.5	-	62.3	84.1	82.1	68.7
August 1992 .....	W	-	W	91.1	-	75.3	91.7	-	76.4	94.0	91.8	80.5
<b>Idaho</b>												
August 1993 .....	-	W	66.2	W	-	66.2	W	W	66.2	75.7	77.4	70.9
July 1993 .....	-	W	67.7	W	-	67.3	W	W	67.5	76.6	78.0	72.5
August 1992 .....	W	-	78.4	W	-	78.8	89.4	-	78.6	89.9	88.3	82.9
<b>Montana</b>												
August 1993 .....	-	-	W	W	-	66.9	W	-	67.0	85.1	81.1	68.5
July 1993 .....	-	-	W	W	-	71.1	W	-	70.9	85.6	84.3	71.0
August 1992 .....	W	-	W	W	-	80.6	W	-	80.3	96.2	93.0	83.1
<b>Utah</b>												
August 1993 .....	W	W	81.8	W	W	62.8	W	W	62.3	77.2	NA	66.2
July 1993 .....	W	W	64.1	W	W	63.3	W	W	63.7	76.5	72.4	67.8
August 1992 .....	W	W	74.5	W	W	73.8	W	W	74.2	88.7	81.3	78.8
<b>Wyoming</b>												
August 1993 .....	W	W	64.5	81.1	-	65.1	79.7	W	W	85.2	72.8	68.1
July 1993 .....	W	W	66.5	84.1	-	65.7	83.0	W	W	86.1	74.4	68.5
August 1992 .....	W	W	77.9	94.5	W	77.7	92.6	W	W	97.5	91.3	82.4
<b>PAD District V Average</b>												
August 1993 .....	72.4	W	66.7	81.9	W	64.9	74.5	W	66.4	79.5	78.7	72.7
July 1993 .....	74.4	W	68.1	82.7	W	63.8	76.3	W	67.4	80.1	77.6	73.5
August 1992 .....	82.2	75.1	75.3	91.5	NA	73.0	84.3	72.4	75.0	85.8	84.5	79.4
<b>Alaska</b>												
August 1993 .....	W	-	W	W	-	W	W	-	78.8	W	NA	93.4
July 1993 .....	W	-	W	W	-	W	W	-	78.7	W	NA	93.7
August 1992 .....	W	-	W	W	W	W	W	W	84.2	NA	NA	98.6
<b>Arizona</b>												
August 1993 .....	78.1	W	71.7	W	W	66.7	78.9	W	70.7	81.2	77.2	74.3
July 1993 .....	78.3	W	71.8	W	W	66.3	79.1	W	W	81.7	74.6	75.1
August 1992 .....	82.6	W	76.4	W	W	69.6	83.2	69.1	75.1	84.3	75.3	75.8
<b>California</b>												
August 1993 .....	W	-	-	-	-	-	W	-	-	-	-	W
July 1993 .....	W	-	-	-	-	-	W	-	-	-	-	W
August 1992 .....	W	-	W	-	-	-	W	-	W	-	W	82.7
<b>Hawaii</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Nevada</b>												
August 1993 .....	-	-	W	-	-	W	-	-	62.5	82.0	NA	69.1
July 1993 .....	-	-	65.0	-	-	W	-	-	64.9	83.1	87.5	W
August 1992 .....	-	W	77.1	-	W	W	-	W	76.9	88.5	W	85.1
<b>Oregon</b>												
August 1993 .....	76.2	-	66.4	W	-	64.1	79.8	-	66.1	81.0	78.4	73.4
July 1993 .....	79.1	W	67.7	W	-	61.6	80.8	W	66.6	81.7	77.9	73.9
August 1992 .....	87.7	W	74.1	W	-	72.9	90.0	W	74.0	86.8	86.9	81.2
<b>Washington</b>												
August 1993 .....	67.2	-	64.7	W	-	64.1	69.7	-	64.6	75.0	78.3	69.5
July 1993 .....	70.5	W	66.6	W	-	63.9	72.6	W	66.2	75.4	76.6	70.0
August 1992 .....	80.4	75.3	75.5	W	W	74.9	82.4	75.1	75.4	84.9	84.9	78.2

Dashes (-) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Refiners and Gas Plant Operators: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers: Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 32. Refiner/Reseller Unleaded Regular Gasoline Prices  
by Seller, PAD District, and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 . . . . .	71.9	60.9	60.6	71.4	61.5	56.6	71.8	61.1	59.6	72.3	70.4	61.3
July 1993 . . . . .	73.2	61.6	60.5	73.1	60.4	55.7	73.2	61.3	59.3	73.4	70.5	61.3
August 1992 . . . . .	78.2	68.1	68.3	78.3	71.6	64.2	78.2	69.0	67.3	78.9	77.4	69.0
<b>PAD District I Average</b>												
August 1993 . . . . .	69.8	57.7	59.4	70.2	60.3	55.1	69.9	58.6	58.9	70.7	66.6	60.1
July 1993 . . . . .	71.5	58.0	59.6	71.6	60.0	54.9	71.5	58.7	58.9	72.1	66.7	60.2
August 1992 . . . . .	75.9	65.8	67.4	76.6	66.7	63.2	76.0	66.1	66.9	77.9	73.3	68.6
<b>Subdistrict IA Average</b>												
August 1993 . . . . .	74.0	56.9	61.3	-	W	55.5	74.0	56.8	60.9	74.6	64.8	60.2
July 1993 . . . . .	75.2	W	61.3	-	W	55.1	75.2	56.5	61.1	75.4	65.5	59.1
August 1992 . . . . .	82.9	67.0	70.3	-	W	W	82.9	65.6	69.8	83.4	71.6	68.0
<b>Connecticut</b>												
August 1993 . . . . .	W	57.2	61.6	-	W	W	W	57.2	61.4	73.9	61.7	63.5
July 1993 . . . . .	W	W	62.0	-	W	W	W	55.9	61.8	74.3	63.0	NA
August 1992 . . . . .	W	66.7	69.7	-	W	W	W	66.4	69.6	81.6	74.4	66.8
<b>Maine</b>												
August 1993 . . . . .	-	W	57.1	-	W	W	-	56.6	57.0	80.0	69.6	62.6
July 1993 . . . . .	-	W	58.2	-	W	W	-	57.1	58.1	80.7	70.4	61.2
August 1992 . . . . .	-	W	67.7	-	W	W	-	67.6	67.6	85.3	77.6	70.1
<b>Massachusetts</b>												
August 1993 . . . . .	74.1	57.1	62.7	-	W	W	74.1	56.5	62.4	71.9	61.6	56.7
July 1993 . . . . .	75.4	W	61.8	-	W	W	75.4	56.6	61.5	73.0	61.7	58.0
August 1992 . . . . .	84.1	66.7	71.4	-	W	W	84.1	65.3	70.9	82.6	67.6	65.9
<b>New Hampshire</b>												
August 1993 . . . . .	74.2	W	61.4	-	W	W	74.2	W	61.1	75.2	68.4	64.3
July 1993 . . . . .	75.4	W	62.0	-	W	W	75.4	54.8	61.7	76.4	69.9	63.5
August 1992 . . . . .	W	64.9	70.6	-	W	W	W	64.3	70.1	84.3	77.2	73.8
<b>Rhode Island</b>												
August 1993 . . . . .	70.5	W	60.1	-	W	W	70.5	56.1	59.6	70.7	69.9	57.5
July 1993 . . . . .	70.9	W	60.7	-	W	W	70.9	57.0	60.2	72.0	62.3	56.6
August 1992 . . . . .	80.8	W	70.5	-	W	W	80.8	66.0	69.1	82.4	66.9	67.0
<b>Vermont</b>												
August 1993 . . . . .	-	-	W	-	W	W	-	W	63.0	78.4	71.1	68.4
July 1993 . . . . .	-	-	W	-	W	W	-	W	63.7	80.6	71.6	68.6
August 1992 . . . . .	-	W	W	-	-	W	-	W	71.4	87.5	74.8	77.1
<b>Subdistrict IB Average</b>												
August 1993 . . . . .	69.9	57.8	60.0	71.9	62.3	56.1	70.3	59.4	59.5	70.8	66.6	59.1
July 1993 . . . . .	71.3	58.7	60.9	72.8	61.2	55.3	71.6	59.8	60.1	71.8	66.5	59.6
August 1992 . . . . .	78.1	67.5	69.0	78.1	67.6	64.2	78.1	67.6	68.4	79.0	73.1	68.1
<b>Delaware</b>												
August 1993 . . . . .	W	56.2	58.4	-	-	W	W	56.2	57.8	66.6	63.8	60.8
July 1993 . . . . .	W	W	59.7	-	-	W	W	W	58.1	67.8	65.2	62.7
August 1992 . . . . .	W	W	68.0	-	-	62.5	W	W	67.6	76.9	71.1	68.4
<b>District of Columbia</b>												
August 1993 . . . . .	-	W	66.0	-	-	-	-	W	66.0	W	59.1	57.8
July 1993 . . . . .	-	W	67.8	-	-	W	-	W	67.7	W	58.9	57.6
August 1992 . . . . .	-	W	74.2	-	-	W	-	W	73.7	W	64.8	W
<b>Maryland</b>												
August 1993 . . . . .	-	55.9	60.7	NA	W	W	NA	55.9	60.9	69.7	63.9	60.4
July 1993 . . . . .	-	57.7	61.5	NA	W	W	NA	57.1	61.8	70.7	64.2	60.6
August 1992 . . . . .	-	65.0	70.4	-	W	72.5	-	64.7	70.7	77.8	72.2	69.2
<b>New Jersey</b>												
August 1993 . . . . .	72.6	56.7	60.4	W	W	53.9	72.7	56.5	59.6	69.4	66.1	55.6
July 1993 . . . . .	74.6	57.0	61.6	W	W	53.2	74.8	57.0	60.1	71.0	65.4	55.5
August 1992 . . . . .	82.6	66.1	70.7	W	W	61.2	82.9	65.0	69.2	79.6	71.3	66.2
<b>New York</b>												
August 1993 . . . . .	70.5	59.7	61.9	W	W	55.6	69.6	59.4	61.1	74.2	64.6	60.6
July 1993 . . . . .	71.2	60.6	62.4	W	W	54.9	70.4	60.5	61.5	75.1	64.9	61.0
August 1992 . . . . .	76.9	69.3	68.9	W	W	63.8	75.8	67.4	68.4	80.2	71.7	68.6
<b>Pennsylvania</b>												
August 1993 . . . . .	67.7	58.7	57.6	76.5	64.9	56.4	69.8	62.5	57.5	67.9	70.6	62.1
July 1993 . . . . .	69.4	59.2	58.5	77.3	62.8	55.4	71.3	61.6	58.0	69.0	70.4	62.8
August 1992 . . . . .	76.8	68.8	67.3	82.7	69.3	63.9	78.2	69.2	66.8	78.3	77.1	68.9

See footnotes at end of table

**Table 32. Refiner/Reseller Unleaded Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
Subdistrict IC Average												
August 1993 . . . . .	69.4	57.8	58.4	68.9	60.7	54.2	69.3	58.4	57.8	69.6	66.9	61.0
July 1993 . . . . .	71.3	57.9	57.9	70.8	59.5	53.3	71.2	58.3	57.3	71.3	67.1	61.4
August 1992 . . . . .	74.0	64.9	65.1	75.5	66.4	62.3	74.3	65.1	64.8	76.1	73.9	69.4
Florida												
August 1993 . . . . .	71.3	57.4	61.1	70.4	W	54.7	71.2	57.2	60.2	72.0	68.9	61.4
July 1993 . . . . .	73.0	58.9	60.7	72.0	W	53.9	72.9	56.7	59.8	73.6	67.7	62.3
August 1992 . . . . .	73.7	64.9	66.0	76.3	W	62.6	74.0	64.6	65.5	78.7	74.8	68.8
Georgia												
August 1993 . . . . .	66.7	57.7	57.2	67.3	-	53.7	66.8	57.7	56.7	68.7	67.9	59.4
July 1993 . . . . .	68.3	57.6	56.6	69.5	-	53.1	68.5	57.6	56.1	70.3	69.1	59.6
August 1992 . . . . .	71.4	67.2	64.4	72.6	-	62.0	71.6	67.2	64.0	75.1	73.8	70.2
North Carolina												
August 1993 . . . . .	67.0	57.0	56.4	W	W	53.9	66.5	57.0	56.2	67.7	63.8	61.4
July 1993 . . . . .	69.3	56.7	55.5	W	W	52.5	68.8	56.7	55.2	69.4	64.3	61.8
August 1992 . . . . .	75.2	62.8	64.1	W	-	61.6	74.7	62.8	63.8	74.2	73.2	68.6
South Carolina												
August 1993 . . . . .	63.5	57.2	56.2	W	-	53.8	63.7	57.2	55.8	67.3	69.3	59.9
July 1993 . . . . .	66.3	56.4	55.4	W	W	52.7	66.2	56.3	55.1	69.7	68.4	59.4
August 1992 . . . . .	71.9	64.2	64.2	W	-	61.8	71.9	64.2	63.9	75.1	70.5	69.9
Virginia												
August 1993 . . . . .	74.2	57.4	59.1	W	55.7	54.2	70.6	57.2	58.5	69.6	65.2	61.9
July 1993 . . . . .	75.8	59.6	59.2	W	55.4	53.2	72.7	57.9	58.6	71.3	65.9	63.3
August 1992 . . . . .	78.9	66.2	66.2	W	W	62.5	77.5	65.5	65.8	76.4	75.3	68.5
West Virginia												
August 1993 . . . . .	78.4	65.8	59.7	W	W	55.0	77.3	65.9	58.6	72.0	65.3	66.0
July 1993 . . . . .	80.6	65.8	59.6	W	W	54.6	79.1	65.3	58.5	74.2	65.8	66.9
August 1992 . . . . .	83.3	73.7	67.5	W	W	W	81.8	72.6	66.6	78.6	74.0	73.2
PAD District II Average												
August 1993 . . . . .	70.3	61.0	58.4	67.7	58.9	56.8	69.5	60.9	57.9	71.1	71.0	61.5
July 1993 . . . . .	71.3	62.1	57.5	69.8	58.9	55.5	70.8	61.8	56.9	72.1	71.0	60.8
August 1992 . . . . .	75.1	68.0	65.4	73.8	67.8	63.9	74.7	68.0	65.0	76.8	77.7	68.4
Illinois												
August 1993 . . . . .	69.2	58.5	58.1	W	W	56.7	68.5	58.4	57.8	71.2	70.9	59.9
July 1993 . . . . .	70.3	57.8	57.2	W	NA	55.9	69.8	57.9	57.0	72.7	70.6	59.8
August 1992 . . . . .	73.5	65.8	64.7	W	W	64.0	73.3	65.9	64.6	76.7	76.1	68.4
Indiana												
August 1993 . . . . .	67.5	56.9	56.9	W	W	55.6	66.9	56.7	56.7	68.7	68.4	60.1
July 1993 . . . . .	70.3	56.6	56.6	W	W	54.8	69.8	56.5	56.4	70.9	67.5	62.0
August 1992 . . . . .	73.0	65.2	64.1	W	W	62.6	72.3	65.2	63.7	75.0	74.0	66.8
Iowa												
August 1993 . . . . .	68.0	W	59.6	66.8	-	57.4	67.1	W	58.5	68.9	72.0	61.3
July 1993 . . . . .	67.6	W	58.0	67.0	-	55.5	67.2	W	56.9	69.1	72.2	60.1
August 1992 . . . . .	79.1	W	66.6	76.7	-	64.8	77.3	W	65.9	78.3	80.0	68.2
Kansas												
August 1993 . . . . .	67.0	58.1	58.4	67.6	W	56.5	67.4	58.4	57.1	71.7	71.9	61.9
July 1993 . . . . .	68.6	57.6	56.9	69.8	W	54.6	69.4	57.4	55.3	72.9	72.2	61.2
August 1992 . . . . .	74.5	W	65.2	74.5	W	63.4	74.5	65.9	63.9	79.0	80.3	68.1
Kentucky												
August 1993 . . . . .	72.6	62.6	58.3	71.5	-	55.1	72.6	62.6	58.0	71.7	65.9	62.0
July 1993 . . . . .	74.2	63.4	57.8	74.3	-	55.2	74.2	63.4	57.6	72.9	66.3	62.6
August 1992 . . . . .	74.8	70.5	65.7	77.6	-	61.2	75.2	70.5	65.1	75.9	72.2	69.6
1993												
August . . . . .	68.0	60.1	58.4	W	W	56.5	67.2	60.1	58.1	71.3	70.1	62.9
July . . . . .	68.6	62.4	57.3	W	W	55.3	69.4	62.3	56.9	71.8	71.8	61.0
August . . . . .	71.9	67.8	65.1	W	-	64.5	71.5	67.8	65.0	75.6	77.3	69.1
1992												
August . . . . .	75.5	61.6	62.0	76.6	W	59.7	75.8	61.6	61.1	77.8	72.7	64.3
July . . . . .	75.7	60.8	60.8	77.0	W	58.6	76.0	60.7	59.8	77.9	74.6	63.4
August . . . . .	79.6	67.3	67.9	83.5	W	65.1	80.7	66.9	66.7	81.7	81.2	70.5
1991												
August . . . . .	69.1	W	58.5	65.3	W	58.6	67.2	W	57.9	68.3	NA	59.8
July . . . . .	69.0	W	57.5	67.2	W	54.9	68.1	60.9	58.6	69.4	69.6	60.2
August . . . . .	72.8	67.6	65.6	71.9	-	64.0	72.4	67.6	65.0	72.4	76.8	67.8

table.



**Table 32. Refiner/Reseller Unleaded Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>												
August 1993 .....	W	W	59.7	70.8	W	57.8	71.6	57.9	58.7	74.2	72.4	61.7
July 1993 .....	W	W	58.1	71.9	W	55.8	74.1	57.9	56.9	75.0	71.3	60.9
August 1992 .....	W	W	67.3	76.8	-	65.7	78.5	W	66.5	78.4	74.7	70.8
<b>North Dakota</b>												
August 1993 .....	82.7	W	63.7	-	-	59.8	82.7	W	61.4	83.3	79.0	64.6
July 1993 .....	83.7	63.9	62.4	W	-	58.2	83.3	63.9	60.1	83.5	78.6	64.3
August 1992 .....	89.3	W	70.4	W	-	67.2	88.9	W	68.7	87.8	84.5	71.8
<b>Ohio</b>												
August 1993 .....	71.8	64.0	59.7	W	W	56.6	71.5	64.1	59.4	70.5	70.5	61.9
July 1993 .....	72.4	65.2	59.0	W	W	55.7	72.1	65.3	58.8	71.3	70.8	60.2
August 1992 .....	76.2	69.9	66.1	W	W	63.9	75.8	70.0	66.0	75.8	74.0	66.7
<b>Oklahoma</b>												
August 1993 .....	66.3	56.4	55.2	66.5	W	55.0	66.3	56.3	55.1	67.9	64.6	59.2
July 1993 .....	67.3	57.2	55.3	69.9	W	54.5	68.1	56.9	54.8	67.9	63.8	56.8
August 1992 .....	73.8	64.3	63.1	73.7	66.4	61.9	73.8	64.3	62.5	73.6	70.3	67.1
<b>South Dakota</b>												
August 1993 .....	W	W	62.1	W	W	60.1	W	58.3	61.2	81.1	73.3	66.4
July 1993 .....	W	W	60.7	W	-	58.5	W	W	59.7	81.4	74.4	67.2
August 1992 .....	W	W	69.8	W	NA	67.6	W	W	68.7	87.6	86.9	75.5
<b>Tennessee</b>												
August 1993 .....	69.9	59.2	56.6	69.0	55.2	54.1	69.6	58.3	56.2	67.7	61.6	61.6
July 1993 .....	71.5	58.1	55.7	69.4	55.6	52.6	70.7	57.4	55.3	69.7	61.9	60.7
August 1992 .....	76.3	64.4	64.5	75.8	67.6	61.7	76.1	65.0	64.0	73.6	70.1	68.3
<b>Wisconsin</b>												
August 1993 .....	68.1	57.9	58.3	W	W	56.7	68.3	57.5	57.8	70.9	73.6	61.6
July 1993 .....	68.7	56.7	57.2	W	W	55.3	69.1	56.5	56.6	72.5	73.2	60.6
August 1992 .....	78.0	65.8	65.6	W	W	64.3	77.1	65.1	65.2	80.1	78.7	67.1
<b>PAD District III Average</b>												
August 1993 .....	72.2	59.3	57.4	71.4	54.7	53.7	71.8	57.6	55.8	71.5	67.6	60.0
July 1993 .....	73.7	59.6	57.0	73.2	53.5	53.7	73.5	57.3	55.6	72.7	67.3	60.3
August 1992 .....	77.7	64.9	63.9	77.4	64.0	61.9	77.6	64.7	63.2	77.2	73.9	67.0
<b>Alabama</b>												
August 1993 .....	70.8	55.0	56.4	68.6	W	54.4	70.3	55.0	55.9	72.8	65.5	64.5
July 1993 .....	72.7	55.5	55.4	70.5	W	53.2	72.2	55.5	54.9	73.3	68.3	64.3
August 1992 .....	77.0	64.2	64.0	76.4	W	62.5	76.8	64.1	63.7	78.3	75.6	72.6
<b>Arkansas</b>												
August 1993 .....	72.4	W	56.4	W	W	53.9	70.4	57.1	55.2	70.7	62.6	59.3
July 1993 .....	73.4	W	55.4	W	-	53.2	71.8	W	54.4	71.7	63.5	58.7
August 1992 .....	81.4	65.0	64.1	W	W	61.9	76.2	64.7	63.2	74.0	72.3	65.3
<b>Louisiana</b>												
August 1993 .....	72.4	55.3	56.3	70.7	W	53.2	72.0	55.5	55.1	70.5	65.1	60.7
July 1993 .....	73.2	55.7	56.9	72.2	W	53.7	73.0	55.7	55.9	71.4	66.2	62.2
August 1992 .....	78.3	62.6	63.2	77.6	W	61.9	78.2	62.7	62.9	75.0	77.0	71.4
<b>Mississippi</b>												
August 1993 .....	68.9	55.3	55.5	72.0	53.8	53.3	70.1	54.3	54.7	69.1	66.9	61.2
July 1993 .....	69.9	W	54.7	72.7	52.7	53.0	71.0	53.4	54.2	70.2	66.7	60.0
August 1992 .....	75.9	64.2	62.7	76.2	61.7	61.6	76.0	63.1	62.4	75.9	74.9	66.5
<b>New Mexico</b>												
August 1993 .....	82.0	73.1	67.7	88.8	69.8	63.4	86.9	72.4	65.8	83.5	80.5	72.9
July 1993 .....	84.4	75.0	69.8	90.6	72.5	65.2	88.7	74.5	67.8	85.4	79.0	73.1
August 1992 .....	84.5	W	74.0	91.0	73.7	72.2	88.9	75.6	73.3	86.1	81.4	79.7
<b>Texas</b>												
August 1993 .....	72.0	60.4	57.5	69.8	W	53.1	71.0	57.2	55.3	70.5	68.6	58.9
July 1993 .....	73.5	60.1	57.1	71.6	W	53.2	72.7	56.3	55.2	72.1	67.6	59.5
August 1992 .....	77.4	64.6	63.6	76.4	64.0	61.2	77.0	64.4	62.6	77.3	72.0	65.7
<b>PAD District IV Average</b>												
August 1993 .....	75.4	63.8	63.9	78.0	64.8	62.8	76.7	64.3	63.5	78.3	75.9	66.7
July 1993 .....	75.1	66.1	65.4	78.6	66.4	62.8	76.8	66.3	64.4	78.3	76.6	67.7
August 1992 .....	86.5	76.7	76.5	87.1	86.2	75.4	86.8	83.1	76.0	89.4	86.3	79.9

See footnotes at end of table.

**Table 32. Refiner/Reseller Unleaded Regular Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>												
August 1993 .....	77.3	W	62.4	78.0	W	59.8	77.7	W	61.3	78.9	73.5	64.3
July 1993 .....	76.7	W	62.0	78.5	-	58.2	77.7	W	60.3	78.7	74.8	64.6
August 1992 .....	86.0	73.1	75.9	86.5	W	72.8	86.2	73.9	74.5	88.3	84.3	77.1
<b>Idaho</b>												
August 1993 .....	-	W	66.4	W	-	66.3	W	W	66.3	75.5	75.6	70.7
July 1993 .....	-	W	67.6	W	-	67.4	W	W	67.6	75.8	76.5	72.4
August 1992 .....	W	W	78.6	W	-	78.7	91.1	W	78.6	89.8	86.4	82.4
<b>Montana</b>												
August 1993 .....	-	W	66.9	W	NA	66.6	W	NA	66.8	85.1	80.5	68.0
July 1993 .....	-	-	70.9	W	NA	70.8	W	NA	70.9	85.1	81.7	70.2
August 1992 .....	W	W	79.4	W	NA	78.8	W	NA	79.1	94.7	88.4	81.6
<b>Utah</b>												
August 1993 .....	70.3	62.5	62.1	W	W	62.4	70.4	62.5	62.2	74.8	NA	67.0
July 1993 .....	70.4	64.6	64.3	W	W	63.0	70.5	64.6	63.9	74.2	72.0	68.1
August 1992 .....	85.5	74.9	74.1	W	W	73.4	85.5	75.3	73.9	85.5	82.8	77.8
<b>Wyoming</b>												
August 1993 .....	W	71.3	64.4	79.1	W	63.8	77.6	69.8	64.1	83.8	77.0	68.8
July 1993 .....	W	73.1	66.1	81.6	W	64.0	80.6	72.2	65.0	84.7	80.4	67.3
August 1992 .....	W	85.4	76.6	94.0	W	76.8	92.0	79.1	76.7	96.7	92.2	81.4
<b>PAD District V Average</b>												
August 1993 .....	77.7	67.5	67.6	78.5	72.9	61.7	77.9	68.8	66.4	82.4	74.9	64.8
July 1993 .....	79.4	66.9	68.9	80.2	70.4	59.4	79.6	67.6	67.0	83.3	75.1	65.9
August 1992 .....	87.8	72.0	77.2	88.6	77.8	66.4	88.0	74.2	75.0	89.4	82.3	72.9
<b>Alaska</b>												
August 1993 .....	W	W	75.4	99.9	W	W	99.2	W	73.9	NA	100.1	NA
July 1993 .....	W	W	75.6	99.7	74.1	W	99.1	75.0	73.2	NA	103.9	89.7
August 1992 .....	W	W	80.6	104.7	NA	W	103.7	NA	78.4	NA	106.3	94.4
<b>Arizona</b>												
August 1993 .....	83.5	70.6	73.0	W	W	66.5	84.0	72.1	72.1	85.2	70.9	74.2
July 1993 .....	83.7	70.9	72.8	W	W	64.7	84.1	70.5	71.9	85.8	71.7	74.5
August 1992 .....	86.5	73.6	76.7	W	74.8	68.8	86.6	74.4	75.4	88.0	78.2	76.7
<b>California</b>												
August 1993 .....	76.2	65.5	66.8	72.9	W	60.4	75.1	65.5	65.4	76.5	72.9	61.3
July 1993 .....	78.1	64.6	68.3	75.0	W	57.7	77.1	64.6	65.9	77.7	72.8	61.9
August 1992 .....	88.0	70.1	77.7	85.3	66.6	64.5	87.1	69.2	74.7	87.1	80.4	69.5
<b>Hawaii</b>												
August 1993 .....	W	W	92.3	W	W	W	101.7	W	90.4	111.5	92.8	100.4
July 1993 .....	W	W	92.4	W	W	W	102.0	W	90.6	113.5	90.9	101.9
August 1992 .....	W	W	91.5	W	W	W	102.9	W	90.0	W	103.4	102.7
<b>Nevada</b>												
August 1993 .....	75.5	69.9	65.9	W	W	67.0	75.1	70.1	66.1	83.2	73.1	65.8
July 1993 .....	W	68.2	65.7	W	W	63.9	76.0	67.7	65.3	83.9	71.4	62.9
August 1992 .....	82.8	76.2	73.6	W	W	70.8	82.2	76.3	73.0	88.6	79.7	74.4
<b>Oregon</b>												
August 1993 .....	84.3	65.6	67.9	W	W	61.5	85.1	69.0	66.7	84.7	79.1	75.4
July 1993 .....	85.2	67.8	69.7	W	W	60.1	86.0	68.0	67.8	85.5	78.8	74.9
August 1992 .....	93.1	75.0	74.9	W	W	73.0	94.6	81.1	74.7	92.7	86.4	79.4
<b>Washington</b>												
August 1993 .....	74.8	64.9	66.3	W	-	63.7	76.2	64.9	66.0	79.7	75.1	69.0
July 1993 .....	77.2	67.4	68.0	W	W	63.4	78.4	67.3	67.4	80.6	76.4	69.9
August 1992 .....	86.1	75.3	76.0	W	W	73.5	87.4	75.1	75.8	89.6	85.4	78.9

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual

Sources: Refiners and Gas Plant Operators: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers: Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 33. Refiner/Reseller Unleaded Midgrade Gasoline Prices  
by Seller, PAD District, and State  
(Cents per Gallon Excluding Taxes)**

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 .. .	81.8	65.1	66.5	78.6	64.5	60.3	81.1	64.9	66.1	79.8	74.6	68.2
July 1993 .. .	82.9	65.9	66.8	80.1	64.2	58.7	82.4	65.5	66.1	80.9	74.9	68.0
August 1992 . .	87.0	72.6	73.7	84.8	71.5	67.4	86.6	72.4	73.3	86.0	80.4	75.4
<b>PAD District I Average</b>												
August 1993 .. .	82.7	61.7	65.9	78.4	64.6	59.1	82.2	62.8	65.7	80.4	72.7	67.6
July 1993 .. .	84.2	62.6	66.4	80.5	64.6	58.9	83.7	63.4	66.1	81.6	72.8	67.9
August 1992 .. .	87.5	70.8	73.0	84.9	71.4	67.6	87.2	71.0	72.7	87.4	79.0	75.6
<b>Subdistrict IA Average</b>												
August 1993 .. .	86.8	66.6	67.0	-	W	58.7	86.8	62.5	66.7	83.6	70.0	67.9
July 1993 .. .	87.9	65.4	67.7	-	W	57.5	87.9	62.8	67.3	84.5	70.5	67.7
August 1992 .. .	94.8	74.7	75.7	-	W	W	94.8	72.4	75.3	93.0	75.9	77.1
<b>Connecticut</b>												
August 1993 .. .	W	68.0	67.3	-	W	W	W	67.4	67.0	84.4	67.3	68.3
July 1993 .. .	W	68.1	68.0	-	W	W	W	67.1	67.5	85.1	67.0	68.5
August 1992 .. .	W	77.2	75.2	-	W	W	W	76.7	75.0	91.1	77.5	79.3
<b>Maine</b>												
August 1993 .. .	-	W	61.1	-	W	W	-	W	61.0	88.9	75.8	67.6
July 1993 .. .	-	W	62.1	-	-	W	-	W	62.1	89.4	77.4	67.6
August 1992 .. .	-	W	71.7	-	W	W	-	W	71.5	98.3	78.5	76.1
<b>Massachusetts</b>												
August 1993 .. .	86.7	NA	68.7	-	W	W	86.7	60.8	68.4	81.4	66.9	65.0
July 1993 .. .	88.1	60.9	69.7	-	W	W	88.1	59.7	69.3	82.5	66.7	64.4
August 1992 .. .	95.2	69.9	77.6	-	W	W	95.2	68.7	77.0	92.3	73.9	74.4
<b>New Hampshire</b>												
August 1993 .. .	86.7	-	66.3	-	W	W	86.7	W	66.2	85.8	72.0	72.0
July 1993 .. .	88.0	-	66.7	-	W	W	88.0	W	66.4	86.7	72.5	73.1
August 1992 .. .	W	-	74.7	-	W	W	W	W	74.4	94.1	73.9	79.0
<b>Rhode Island</b>												
August 1993 .. .	80.8	W	65.9	-	-	W	80.8	W	65.3	77.2	69.4	62.6
July 1993 .. .	81.4	W	65.9	-	W	W	81.4	W	65.5	78.3	67.3	61.1
August 1992 .. .	91.1	W	75.4	-	W	W	91.1	W	73.8	88.6	72.3	71.9
<b>Vermont</b>												
August 1993 .. .	-	-	W	-	-	W	-	-	W	88.2	75.3	75.1
July 1993 .. .	-	-	W	-	-	W	-	-	W	88.8	76.1	75.2
August 1992 .. .	-	-	W	-	-	W	-	-	W	95.3	81.2	81.7
<b>Subdistrict IB Average</b>												
August 1993 .. .	82.7	63.6	66.6	W	67.6	62.2	82.4	65.6	66.5	78.7	72.2	68.4
July 1993 .. .	84.1	66.8	67.9	W	67.6	62.9	83.7	67.2	W	79.7	72.3	68.0
August 1992 .. .	89.6	72.9	74.7	W	73.0	72.2	89.2	72.9	74.6	88.2	78.5	75.8
<b>Delaware</b>												
August 1993 .. .	W	59.5	63.2	-	-	W	W	59.5	62.4	74.4	70.1	66.2
July 1993 .. .	W	W	64.5	-	-	W	W	W	63.5	75.1	71.8	68.1
August 1992 .. .	W	W	72.3	-	-	65.6	W	W	71.9	86.7	80.5	72.6
<b>District of Columbia</b>												
August 1993 .. .	-	W	71.2	-	-	-	-	W	71.2	W	NA	60.9
July 1993 .. .	-	W	72.9	-	-	-	-	W	72.9	W	60.5	63.3
August 1992 .. .	-	W	79.5	-	-	-	-	W	79.5	W	67.9	W
<b>Maryland</b>												
August 1993 .. .	-	59.6	66.7	NA	W	NA	NA	59.5	66.9	79.9	75.6	65.6
July 1993 .. .	-	61.2	68.1	NA	W	W	NA	60.3	68.2	81.2	75.7	66.3
August 1992 .. .	-	69.2	75.4	-	-	76.9	-	69.2	75.5	89.2	81.9	75.6
<b>New Jersey</b>												
August 1993 .. .	87.6	67.5	68.0	-	W	57.2	87.6	62.6	67.7	84.6	72.8	NA
July 1993 .. .	89.5	70.1	69.5	-	W	57.9	89.5	63.8	69.2	85.4	72.2	63.6
August 1992 .. .	95.1	77.5	77.7	-	W	65.8	95.1	70.2	77.5	92.1	79.4	77.1
<b>New York</b>												
August 1993 .. .	83.2	71.3	68.8	W	W	W	81.8	67.7	68.6	82.2	67.9	69.1
July 1993 .. .	84.0	74.6	69.9	W	W	W	82.3	71.4	69.6	83.1	67.7	69.5
August 1992 .. .	87.5	80.0	75.0	W	W	W	86.5	73.0	74.8	89.1	74.8	76.4
<b>Pennsylvania</b>												
August 1993 .. .	79.9	63.5	63.7	W	74.9	61.3	80.4	71.8	63.7	76.0	74.8	69.2
July 1993 .. .	81.4	64.6	64.8	W	75.7	60.1	81.9	72.6	64.7	76.9	75.3	69.7
August 1992 .. .	88.1	70.5	71.9	W	79.5	68.3	88.3	77.2	71.8	86.6	80.1	74.9

See footnotes at end of table

**Table 33. Refiner/Reseller Unleaded Midgrade Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Subdistrict IC Average</b>												
August 1993	82.3	60.2	65.2	77.7	63.8	57.6	81.7	61.1	W	80.2	73.9	67.2
July 1993	83.9	60.6	65.0	80.2	62.9	56.5	83.4	61.3	64.6	81.6	74.1	67.9
August 1992	85.8	68.6	70.9	84.4	70.5	65.3	85.6	69.3	W	85.8	80.3	75.1
<b>Florida</b>												
August 1993	85.3	59.4	69.6	W	W	58.1	84.9	60.0	68.9	83.3	73.8	68.1
July 1993	86.7	W	70.0	W	W	57.2	86.3	59.8	69.1	84.7	74.2	70.5
August 1992	86.2	68.2	72.6	85.4	W	65.6	86.1	68.7	72.1	89.5	78.5	74.9
<b>Georgia</b>												
August 1993	78.2	59.7	63.2	76.1	-	56.8	78.0	59.7	62.9	78.7	73.0	64.9
July 1993	79.4	60.1	62.9	77.8	-	55.7	79.2	60.1	62.5	80.6	74.4	65.0
August 1992	82.4	71.6	69.6	80.8	-	65.0	82.3	71.6	69.2	85.0	78.3	75.7
<b>North Carolina</b>												
August 1993	78.3	60.7	61.3	W	W	57.2	77.5	60.7	61.2	78.1	70.0	67.5
July 1993	80.2	59.6	60.6	W	-	58.1	79.6	59.6	60.5	79.0	70.9	68.2
August 1992	85.2	66.4	68.8	W	-	65.4	84.8	66.4	68.7	82.9	81.3	74.9
<b>South Carolina</b>												
August 1993	74.9	W	61.3	W	-	56.7	74.2	W	60.9	79.4	NA	65.2
July 1993	77.0	W	60.6	W	-	55.3	77.0	W	60.3	81.9	70.0	64.4
August 1992	82.3	W	69.2	W	-	64.6	82.3	W	68.8	86.0	76.3	72.3
<b>Virginia</b>												
August 1993	86.9	59.8	65.4	W	W	57.3	83.3	60.6	65.2	79.9	76.2	69.5
July 1993	88.4	61.9	65.6	W	W	55.6	85.0	61.4	65.3	81.0	77.9	70.7
August 1992	90.7	68.9	72.1	W	W	65.2	88.6	69.0	72.0	85.8	84.1	75.9
<b>West Virginia</b>												
August 1993	89.5	W	64.7	W	W	W	87.7	73.1	64.4	80.7	71.7	72.7
July 1993	92.2	W	64.5	W	W	59.2	89.6	71.9	64.1	83.1	70.4	74.0
August 1992	94.8	W	72.3	W	W	W	92.2	78.7	72.2	88.1	77.9	78.7
<b>PAD District II Average</b>												
August 1993	79.4	66.7	65.1	76.2	69.7	60.3	78.9	66.9	64.9	77.6	76.5	67.8
July 1993	80.2	68.8	64.7	77.8	71.9	59.3	79.8	68.9	W	78.9	77.1	67.1
August 1992	83.8	74.8	71.0	82.0	76.8	67.2	83.5	74.8	70.8	82.9	82.1	74.1
<b>Illinois</b>												
August 1993	79.2	W	67.1	W	-	60.9	78.3	W	67.0	76.7	75.1	68.1
July 1993	80.0	W	66.9	W	-	59.4	79.4	W	66.7	78.1	76.7	67.4
August 1992	82.8	W	71.3	W	-	68.0	82.4	W	71.2	83.0	81.6	77.9
<b>Indiana</b>												
August 1993	74.6	W	63.9	W	-	W	74.2	W	63.6	76.7	71.6	67.7
July 1993	77.3	W	64.2	W	-	W	76.9	W	63.5	78.4	74.0	68.8
August 1992	80.2	W	69.8	W	-	W	79.8	W	69.7	82.4	79.7	72.4
<b>Iowa</b>												
August 1993	W	-	62.2	W	-	W	W	-	62.2	75.1	73.6	67.3
July 1993	W	-	64.3	72.5	-	W	72.4	-	64.3	76.0	NA	66.7
August 1992	-	-	72.8	81.5	-	70.6	81.5	-	72.8	84.7	86.9	73.4
<b>Kansas</b>												
August 1993	77.4	-	66.1	74.8	-	60.4	77.0	-	65.8	77.8	77.0	68.2
July 1993	78.6	W	65.8	77.2	-	59.0	78.5	W	65.3	79.0	77.6	67.4
August 1992	83.2	W	72.8	83.8	-	68.6	83.3	W	72.5	84.2	91.5	72.0
<b>Kentucky</b>												
August 1993	84.1	W	63.8	81.8	-	56.6	84.0	W	63.6	79.6	73.5	69.7
July 1993	85.2	71.8	63.6	83.7	-	56.0	85.1	71.8	63.4	81.1	73.3	69.2
August 1992	84.0	W	70.2	83.0	-	64.5	84.0	W	70.1	82.7	83.8	75.5
<b>Michigan</b>												
August 1993	76.4	W	64.6	W	W	W	76.3	W	64.4	78.7	74.9	68.7
July 1993	76.9	W	63.6	W	-	W	76.9	W	63.4	79.4	74.7	66.9
August 1992	79.7	W	69.3	W	-	67.3	79.9	W	69.2	82.1	81.1	74.6
<b>Minnesota</b>												
August 1993	82.5	W	70.4	85.8	-	W	83.1	W	69.4	80.5	80.0	67.2
July 1993	83.1	W	69.7	86.3	-	W	83.7	W	68.2	81.6	83.5	68.6
August 1992	91.8	-	75.9	89.1	-	W	91.2	-	75.8	86.6	84.9	75.7
<b>Missouri</b>												
August 1993	80.6	W	67.1	75.4	-	57.8	78.9	W	66.6	74.8	NA	65.1
July 1993	78.6	W	67.6	77.4	-	57.1	78.2	W	67.0	75.8	75.8	66.3
August 1992	83.4	W	71.9	82.2	-	67.3	83.1	W	71.4	79.3	85.0	72.9

See footnotes at end of table

**Table 33. Refiner/Reseller Unleaded Midgrade Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>												
August 1993 . . .	W	-	-	W	-	W	75.2	-	W	79.4	78.8	66.4
July 1993 . . .	W	-	-	W	-	W	77.5	-	W	81.5	79.4	66.1
August 1992 . . .	W	-	W	W	-	-	80.6	-	W	87.7	W	75.6
<b>North Dakota</b>												
August 1993 . . .	W	-	W	-	-	-	W	-	W	91.3	W	70.4
July 1993 . . .	W	-	W	-	-	-	W	-	W	92.6	W	68.2
August 1992 . . .	95.3	-	W	-	-	-	95.3	-	W	93.3	91.4	82.2
<b>Ohio</b>												
August 1993 . . .	80.4	W	66.8	75.2	W	61.8	80.2	66.7	66.7	77.0	80.0	66.3
July 1993 . . .	81.0	W	66.7	77.1	W	64.7	80.8	69.6	66.6	77.8	79.1	65.4
August 1992 . . .	84.5	74.9	73.1	81.0	W	67.5	84.3	75.1	72.9	82.7	79.4	70.3
<b>Oklahoma</b>												
August 1993 . . .	75.1	W	59.8	73.9	W	59.2	74.8	66.5	59.7	74.7	65.3	67.9
July 1993 . . .	76.1	W	58.5	77.6	W	57.4	76.4	W	58.4	73.6	65.7	66.5
August 1992 . . .	81.6	W	67.6	80.3	W	67.2	81.3	66.4	67.5	79.9	71.5	72.9
<b>South Dakota</b>												
August 1993 . . .	W	-	W	W	-	-	W	-	W	83.9	85.0	72.4
July 1993 . . .	W	-	W	W	-	-	W	-	W	85.0	82.3	71.2
August 1992 . . .	W	-	W	W	-	-	W	-	W	84.3	92.4	72.9
<b>Tennessee</b>												
August 1993 . . .	81.2	60.3	62.3	W	W	57.7	80.3	59.7	62.0	78.0	67.6	68.8
July 1993 . . .	82.2	61.0	61.7	W	W	55.3	81.6	60.8	61.4	79.5	68.0	66.9
August 1992 . . .	87.1	68.6	69.8	W	W	64.5	86.2	68.2	69.6	84.2	75.5	73.9
<b>Wisconsin</b>												
August 1993 . . .	79.1	-	64.8	W	-	W	78.4	-	64.3	77.3	86.8	68.6
July 1993 . . .	79.4	-	63.9	W	-	W	78.8	-	63.4	79.9	82.1	66.6
August 1992 . . .	88.5	-	71.9	82.7	-	W	87.1	-	71.6	87.2	83.6	72.2
<b>PAD District III Average</b>												
August 1993 . . .	83.3	58.5	62.6	80.0	57.5	58.3	82.2	58.2	61.8	80.1	71.6	67.8
July 1993 . . .	84.8	58.4	62.3	81.7	55.9	56.9	83.8	57.6	61.3	80.9	72.0	67.9
August 1992 . . .	88.4	66.3	69.7	86.1	64.9	65.9	87.6	68.0	69.0	84.7	76.7	75.4
<b>Alabama</b>												
August 1993 . . .	81.2	58.2	61.8	77.6	W	57.8	80.8	58.2	61.6	82.0	77.4	71.1
July 1993 . . .	82.6	57.6	61.1	79.1	W	56.9	82.1	57.6	60.7	82.5	77.3	70.1
August 1992 . . .	86.9	65.8	69.3	85.7	W	65.5	86.7	65.8	68.9	86.3	82.1	77.6
<b>Arkansas</b>												
August 1993 . . .	82.0	-	60.8	W	W	57.3	82.4	W	60.0	79.7	66.6	62.5
July 1993 . . .	83.8	-	60.2	W	W	56.1	83.9	W	59.1	80.2	66.7	62.6
August 1992 . . .	88.6	-	66.4	W	-	65.1	85.9	-	67.5	80.8	75.8	69.9
<b>Louisiana</b>												
August 1993 . . .	84.7	W	64.0	82.3	W	58.7	84.3	W	63.1	81.1	73.6	68.4
July 1993 . . .	85.2	W	63.6	83.4	W	57.5	84.9	W	62.5	81.7	73.1	69.1
August 1992 . . .	88.6	W	70.6	87.9	W	66.2	88.5	66.3	69.7	83.3	78.9	76.3
<b>Mississippi</b>												
August 1993 . . .	79.8	W	60.6	81.0	59.3	57.2	80.2	59.0	59.9	78.2	72.9	69.7
July 1993 . . .	80.1	W	59.8	81.9	55.9	56.0	80.8	57.8	59.1	79.4	76.0	70.1
August 1992 . . .	85.1	66.9	68.4	84.0	66.7	64.9	84.7	66.8	67.8	84.1	78.6	73.0
<b>New Mexico</b>												
August 1993 . . .	W	-	74.7	-	-	67.9	W	-	72.9	88.6	W	73.1
July 1993 . . .	W	-	76.5	-	-	69.4	W	-	74.5	90.4	W	72.5
August 1992 . . .	W	-	77.5	-	-	78.9	W	-	77.8	92.8	NA	77.6
<b>Texas</b>												
August 1993 . . .	83.2	59.5	62.7	79.7	57.2	58.2	82.0	58.4	W	78.9	69.3	68.0
July 1993 . . .	84.9	59.4	62.6	81.4	W	56.6	83.8	57.6	W	80.0	70.0	68.1
August 1992 . . .	88.4	66.7	69.9	86.2	W	66.1	87.7	66.0	W	85.3	74.7	75.5
<b>PAD District IV Average</b>												
August 1993 . . .	84.5	-	68.1	W	-	65.6	85.5	-	67.9	84.2	68.2	NA
July 1993 . . .	84.0	-	68.8	W	-	66.0	85.3	-	68.6	83.6	66.8	69.9
August 1992 . . .	92.4	W	82.2	W	-	73.7	93.2	W	78.9	91.5	84.3	79.6

See footnotes at end of table

**Table 33. Refiner/Reseller Unleaded Midgrade Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>												
August 1993 .....	87.3	-	67.9	W	-	64.5	87.3	-	67.6	88.5	66.1	68.1
July 1993 .....	86.7	-	67.6	W	-	65.3	87.2	-	67.4	88.4	65.6	67.0
August 1992 .....	93.2	-	82.0	W	-	73.6	94.0	-	79.1	92.6	81.2	81.2
<b>Idaho</b>												
August 1993 .....	-	-	W	-	-	-	-	-	W	NA	W	NA
July 1993 .....	-	-	W	-	-	-	-	-	W	84.4	-	NA
August 1992 .....	-	-	-	-	-	-	-	-	-	NA	94.4	W
<b>Montana</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	W	W	-
July 1993 .....	-	-	-	-	-	-	-	-	-	W	W	-
August 1992 .....	-	-	-	-	-	-	-	-	-	W	W	-
<b>Utah</b>												
August 1993 .....	77.5	-	69.3	-	-	W	77.5	-	69.5	77.7	-	69.5
July 1993 .....	77.2	-	73.3	-	-	W	77.2	-	73.3	NA	-	70.5
August 1992 .....	90.5	W	W	-	-	W	90.5	W	W	87.1	W	77.1
<b>Wyoming</b>												
August 1993 .....	-	-	W	-	-	-	-	-	W	83.9	W	W
July 1993 .....	-	-	W	-	-	-	-	-	W	83.3	W	W
August 1992 .....	-	-	W	-	-	-	-	-	W	W	-	79.1
<b>PAD District V Average</b>												
August 1993 .....	84.0	71.9	73.8	76.5	W	64.6	82.0	72.2	72.8	86.4	79.4	74.5
July 1993 .....	85.7	70.5	75.3	77.9	W	60.8	83.6	70.7	73.6	86.8	78.8	73.7
August 1992 .....	94.2	76.0	83.6	84.1	W	69.8	92.5	76.2	82.7	94.0	86.9	79.1
<b>Alaska</b>												
August 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
July 1993 .....	-	-	-	-	-	-	-	-	-	-	-	-
August 1992 .....	-	-	-	-	-	-	-	-	-	-	-	-
<b>Arizona</b>												
August 1993 .....	83.7	-	77.7	-	-	W	83.7	-	77.5	89.5	W	75.6
July 1993 .....	83.8	-	77.5	-	-	W	83.8	-	77.2	89.6	74.9	72.9
August 1992 .....	89.1	-	82.2	-	-	W	89.1	-	82.4	91.1	-	W
<b>California</b>												
August 1993 .....	83.8	70.9	73.4	75.8	W	64.6	81.6	70.8	72.4	84.3	79.6	74.7
July 1993 .....	85.5	69.2	75.0	77.3	W	60.7	83.2	69.1	73.2	84.6	78.8	74.2
August 1992 .....	94.2	75.3	83.6	83.2	W	69.6	92.4	75.1	82.7	94.5	85.9	78.5
<b>Hawaii</b>												
August 1993 .....	W	W	97.2	W	W	W	109.1	W	97.0	113.4	NA	W
July 1993 .....	W	W	97.7	W	W	W	109.4	W	97.5	117.0	NA	W
August 1992 .....	W	W	96.7	W	W	W	115.9	W	96.5	W	W	W
<b>Nevada</b>												
August 1993 .....	71.3	W	71.5	W	-	-	72.5	W	71.5	86.5	73.5	71.4
July 1993 .....	W	W	71.2	W	-	-	73.2	W	71.2	87.1	72.3	67.5
August 1992 .....	NA	W	77.5	W	-	W	NA	W	77.5	91.0	76.8	84.8
<b>Oregon</b>												
August 1993 .....	W	-	-	-	-	W	W	-	W	W	-	-
July 1993 .....	W	-	-	-	-	-	W	-	-	W	-	-
August 1992 .....	W	-	W	-	-	-	W	-	W	-	W	-
<b>Washington</b>												
August 1993 .....	W	-	W	-	-	-	W	-	W	W	W	W
July 1993 .....	W	-	W	-	-	-	W	-	W	W	W	W
August 1992 .....	-	-	W	-	-	-	-	-	W	-	W	W

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Refiners and Gas Plant Operators: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers: Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 34. Refiner/Reseller Premium Gasoline Prices  
by Seller, PAD District, and State  
(Cents per Gallon Excluding Taxes)**

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 . .	91.3	70.5	73.8	86.2	69.1	63.0	90.2	70.2	72.4	88.5	80.9	73.0
July 1993 . . .	92.0	71.4	73.9	88.1	68.9	62.4	91.2	70.8	72.5	89.4	80.4	73.1
August 1992 . .	96.4	78.0	81.6	93.9	78.7	71.3	95.9	78.2	80.3	94.3	86.5	81.2
<b>PAD District I Average</b>												
August 1993 ....	92.0	66.7	73.7	87.3	67.2	62.5	91.5	66.9	72.9	89.5	79.8	72.8
July 1993 ....	92.2	67.3	74.4	88.4	67.3	61.3	91.7	67.3	73.5	90.6	79.0	72.9
August 1992 ....	96.6	75.4	81.4	94.2	74.7	70.2	96.3	75.1	80.5	96.0	85.7	81.6
<b>Subdistrict IA Average</b>												
August 1993 . .	96.7	67.5	73.8	-	W	63.6	96.7	64.3	73.4	91.9	77.4	73.3
July 1993 . ....	96.9	66.2	75.1	-	W	61.7	96.9	63.2	74.6	92.7	76.1	73.0
August 1992 . .	104.0	77.5	83.7	-	W	W	104.0	73.8	83.1	100.2	81.5	83.6
<b>Connecticut</b>												
August 1993 ...	W	67.3	75.1	-	W	W	W	66.0	74.8	94.1	73.4	75.5
July 1993 . . .	W	W	75.7	-	W	W	W	63.4	75.3	94.3	74.2	76.2
August 1992 ...	W	78.1	83.1	-	W	W	W	77.7	82.9	101.2	81.6	87.2
<b>Maine</b>												
August 1993 ....	-	W	68.6	-	W	W	-	W	68.4	96.4	79.1	73.9
July 1993 . . . .	-	W	69.4	-	-	W	-	W	69.3	97.1	79.5	73.9
August 1992 . . .	-	W	78.2	-	W	W	-	W	78.0	101.1	85.6	79.7
<b>Massachusetts</b>												
August 1993 ....	96.6	67.8	74.1	-	W	W	96.6	W	73.8	90.2	75.1	69.7
July 1993 . . . .	97.1	W	76.0	-	W	W	97.1	62.9	75.6	91.3	73.0	68.8
August 1992 . . .	104.9	NA	85.4	-	W	W	104.9	71.8	84.8	99.6	79.3	81.5
<b>New Hampshire</b>												
August 1993 . . . .	94.8	-	74.7	-	W	W	94.8	W	W	93.9	NA	78.8
July 1993 . . . . .	95.6	-	75.2	-	W	W	95.6	W	74.5	94.7	79.4	79.2
August 1992 . . .	W	-	84.1	-	W	W	W	W	W	102.5	89.2	85.6
<b>Rhode Island</b>												
August 1993	89.1	W	73.7	-	W	W	89.1	67.0	73.0	83.2	82.2	66.2
July 1993 . . . . .	89.2	W	74.2	-	W	W	89.2	65.7	73.7	84.8	77.2	64.0
August 1992 . . .	99.0	W	84.1	-	-	W	99.0	W	81.9	95.3	77.1	77.2
<b>Vermont</b>												
August 1993 . . . .	-	-	W	-	-	W	-	-	74.4	95.7	80.8	81.0
July 1993 . . . . .	-	-	W	-	-	W	-	-	W	96.3	83.0	81.6
August 1992 . . . .	-	-	W	-	-	W	-	-	83.0	102.1	83.7	90.8
<b>Subdistrict IB Average</b>												
August 1993 . . .	92.0	67.9	74.5	89.4	69.7	64.6	91.7	68.8	73.8	87.3	79.3	71.5
July 1993 . . . . .	90.7	69.8	75.9	90.7	69.4	62.9	90.7	69.6	75.1	88.1	79.3	71.5
August 1992 . . .	99.2	78.2	83.4	96.2	76.2	71.1	98.9	76.9	82.4	96.4	84.7	80.2
<b>Delaware</b>												
August 1993 . . . .	W	W	71.3	-	-	W	W	W	71.0	84.6	79.9	71.7
July 1993 . . . . .	W	-	72.6	-	-	W	W	-	72.6	85.3	77.8	73.0
August 1992 . . . .	W	W	81.0	-	-	70.1	W	W	80.2	95.8	87.1	78.3
<b>District of Columbia</b>												
August 1993 . . . .	-	W	80.1	-	-	-	-	W	80.1	W	66.5	65.0
July 1993 . . . . .	-	W	81.4	-	-	W	-	W	81.4	W	65.7	69.5
August 1992 . . . .	-	W	87.9	-	-	-	-	W	87.9	W	82.1	W
<b>Maryland</b>												
August 1993 . . . . .	-	65.3	73.9	NA	W	75.0	NA	65.0	73.9	86.1	79.4	70.5
July 1993 . . . . .	-	69.2	75.5	NA	W	W	NA	67.4	75.2	87.4	79.4	71.4
August 1992 . . . .	-	74.5	83.8	-	W	82.8	-	74.4	83.8	96.3	85.3	81.3
<b>New Jersey</b>												
August 1993 . . . .	96.6	66.8	73.8	W	W	31.8	96.4	66.2	73.1	91.6	78.2	69.6
July 1993 . . . . .	98.5	66.2	75.8	W	W	59.4	98.4	66.7	75.0	92.5	78.4	67.4
August 1992 . . . .	104.7	76.3	83.9	W	W	68.4	104.5	74.4	82.0	99.2	83.9	76.7
<b>New York</b>												
August 1993 . . . .	91.1	70.8	77.8	W	W	W	90.4	69.8	76.6	91.0	74.8	70.9
July 1993 . . . . .	86.8	71.2	79.1	W	W	61.8	86.7	70.1	77.7	91.5	75.6	71.5
August 1992 . . . .	96.3	81.4	84.4	W	W	70.7	95.7	76.2	83.8	97.1	81.7	80.6
<b>Pennsylvania</b>												
August 1993 . . . .	88.3	71.5	71.4	92.7	75.4	65.1	88.9	74.2	70.8	82.6	84.5	74.2
July 1993 . . . . .	88.5	74.2	71.7	94.0	73.2	64.9	89.3	73.4	71.3	83.8	84.0	75.1
August 1992 . . . .	96.9	81.8	80.7	99.8	81.6	71.4	97.4	81.7	78.9	94.3	80.5	81.2

See footnotes at end of table.

**Table 34. Refiner/Reseller Premium Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Subdistrict IC Average</b>												
August 1993	91.5	66.0	72.8	86.1	66.9	60.6	90.8	66.2	71.7	89.9	80.6	73.6
July 1993	92.7	66.3	72.6	87.2	66.1	59.9	92.0	66.2	71.5	91.2	79.4	74.0
August 1992	94.1	74.4	78.2	93.2	73.2	69.1	94.0	74.1	77.4	94.9	87.6	82.0
<b>Florida</b>												
August 1993	93.8	W	78.8	88.5	W	62.0	93.4	64.6	77.7	92.1	80.2	76.1
July 1993	95.2	W	78.8	90.0	W	60.9	94.8	64.3	77.6	93.6	79.2	78.0
August 1992	93.9	72.7	80.7	93.2	W	69.6	93.8	72.4	79.8	97.8	87.9	83.3
<b>Georgia</b>												
August 1993	87.0	64.8	69.5	82.9	W	60.1	86.6	64.8	68.4	88.8	83.6	73.4
July 1993	88.3	65.2	69.0	84.8	-	60.0	88.0	65.2	68.2	90.1	82.8	73.2
August 1992	91.2	74.5	76.2	90.0	-	69.2	91.1	74.5	75.5	94.9	87.3	83.7
<b>North Carolina</b>												
August 1993	88.1	66.9	67.2	W	W	59.8	87.1	66.9	66.4	88.2	76.3	72.6
July 1993	89.8	70.5	66.5	W	-	59.3	88.1	70.5	65.9	89.1	74.5	73.0
August 1992	94.1	W	74.6	W	-	63.7	93.6	W	74.1	91.9	85.2	80.9
<b>South Carolina</b>												
August 1993	84.6	66.5	67.3	W	-	60.5	84.3	66.5	66.6	90.3	81.0	70.7
July 1993	84.2	66.5	66.5	W	-	59.6	84.1	66.5	65.9	92.8	78.8	69.8
August 1992	91.4	73.4	75.2	W	-	69.0	91.5	73.4	74.7	95.4	84.6	78.5
<b>Virginia</b>												
August 1993	95.0	65.2	72.2	W	62.7	60.0	91.6	65.0	70.9	89.7	80.7	74.4
July 1993	95.7	67.1	72.8	W	64.2	58.8	92.4	65.7	71.4	90.8	80.7	75.8
August 1992	99.4	75.9	79.6	W	W	67.9	98.1	75.1	78.5	95.4	90.6	81.6
<b>West Virginia</b>												
August 1993	95.6	79.7	71.7	92.1	W	64.7	94.3	77.9	70.9	89.2	79.5	78.2
July 1993	99.5	78.2	71.7	93.5	W	63.8	97.3	76.9	70.5	89.8	78.3	79.5
August 1992	103.9	84.1	79.4	95.5	W	73.4	101.0	84.3	78.6	94.1	86.6	85.2
<b>PAD District II Average</b>												
August 1993	87.4	71.3	69.4	79.1	69.7	62.9	85.1	71.2	68.4	84.2	79.3	71.6
July 1993	88.2	73.1	68.9	81.5	66.4	61.6	86.5	72.7	67.8	85.3	79.4	71.0
August 1992	91.3	78.4	76.2	87.6	77.3	70.9	90.4	78.4	75.4	89.3	86.2	77.9
<b>Illinois</b>												
August 1993	87.7	69.8	71.7	W	-	59.5	85.2	69.8	70.2	83.6	78.6	68.5
July 1993	88.4	69.2	71.4	W	-	60.9	86.8	69.2	70.7	84.5	80.5	68.7
August 1992	90.7	81.4	77.0	W	-	70.1	89.9	81.4	76.6	90.9	84.5	78.9
<b>Indiana</b>												
August 1993	80.7	64.9	68.7	W	W	62.4	79.6	64.2	67.9	83.8	80.2	71.5
July 1993	83.2	NA	68.7	W	W	60.4	82.1	63.3	67.3	86.1	76.9	72.5
August 1992	86.5	75.6	75.7	W	W	69.8	85.5	75.1	74.9	86.7	87.4	77.4
<b>Iowa</b>												
August 1993	80.3	-	65.3	75.9	-	64.5	77.3	-	65.1	78.0	80.3	69.9
July 1993	80.1	-	68.0	76.2	-	62.5	77.4	-	66.9	78.4	79.1	69.2
August 1992	90.7	-	74.7	88.0	-	71.6	88.8	-	74.1	87.8	86.5	76.4
<b>Kansas</b>												
August 1993	87.6	W	67.6	79.5	W	64.1	83.1	W	65.9	83.5	79.2	69.7
July 1993	88.7	W	66.2	79.9	W	61.8	83.7	W	64.1	84.9	78.7	69.5
August 1992	93.2	W	74.3	84.5	W	70.8	88.4	W	72.5	90.5	83.6	76.2
<b>Kentucky</b>												
August 1993	91.9	76.9	69.2	86.1	-	64.4	91.6	76.9	69.0	88.1	78.9	74.9
July 1993	92.6	76.6	69.0	88.6	-	63.3	92.4	76.6	68.6	89.6	79.3	74.8
August 1992	92.2	85.0	76.5	85.5	-	71.6	91.5	85.0	76.2	90.9	86.2	81.2
<b>Michigan</b>												
August 1993	84.7	71.1	69.7	W	-	63.9	80.9	71.1	69.1	85.3	80.8	71.2
July 1993	84.7	73.7	68.6	W	-	62.6	82.4	73.7	67.9	86.2	81.2	70.7
August 1992	87.7	76.4	76.0	W	-	72.4	87.6	76.4	75.6	89.6	89.5	79.1
<b>Minnesota</b>												
August 1993	89.6	-	72.2	90.7	W	66.9	89.8	W	71.0	89.3	81.2	72.1
July 1993	89.8	W	71.0	91.2	W	65.2	90.1	W	69.8	89.0	82.2	70.8
August 1992	91.2	W	78.3	94.9	W	72.2	92.1	77.9	76.2	91.2	91.2	76.7
<b>Missouri</b>												
August 1993	90.0	W	68.8	81.1	W	63.0	86.3	W	67.6	81.2	NA	68.1
July 1993	90.1	W	68.2	82.1	W	61.9	86.8	63.3	66.8	82.3	76.5	68.1
August 1992	92.8	W	75.9	87.4	-	71.0	90.8	W	74.8	84.6	90.7	75.7

See footnotes at end of table.



**Table 34. Refiner/Reseller Premium Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>												
August 1993 .	W	-	69.5	W	W	65.0	83.2	W	68.4	81.3	74.1	68.2
July 1993 .....	W	-	68.2	W	W	62.9	85.5	W	67.1	82.9	72.9	68.8
August 1992 ..	W	-	76.4	88.4	-	72.6	92.5	-	75.5	86.5	W	75.9
<b>North Dakota</b>												
August 1993 .	NA	-	76.2	-	-	67.1	NA	-	73.4	89.9	88.8	71.4
July 1993 .....	98.9	-	75.4	W	-	85.6	98.5	-	72.7	90.5	87.0	70.4
August 1992 .	98.0	-	82.7	W	-	74.3	97.5	-	79.9	96.2	93.6	82.9
<b>Ohio</b>												
August 1993 ....	88.7	75.9	71.4	W	W	63.6	86.5	76.1	70.9	89.1	82.0	71.4
July 1993 .....	89.4	W	71.0	W	W	61.8	88.2	78.1	70.4	84.0	82.5	70.8
August 1992 .....	92.3	80.7	77.8	W	W	71.3	91.8	80.8	77.5	89.8	81.9	75.1
<b>Oklahoma</b>												
August 1993 ....	83.7	63.3	63.0	80.0	W	62.2	82.7	63.0	62.7	78.8	69.1	70.2
July 1993 .....	84.6	65.0	62.2	83.5	W	60.3	84.3	64.2	61.4	78.0	71.0	67.9
August 1992 .....	88.1	71.3	71.5	85.3	-	69.3	87.5	71.3	70.7	83.8	77.1	78.4
<b>South Dakota</b>												
August 1993 ...	W	-	72.6	W	-	69.4	87.8	-	71.6	91.6	83.3	76.8
July 1993 ...	W	-	72.2	W	-	68.7	88.9	-	71.3	93.3	84.5	78.6
August 1992 ...	W	-	80.3	W	-	77.4	96.5	-	79.5	100.0	98.2	85.0
<b>Tennessee</b>												
August 1993 .	90.1	64.0	67.9	85.2	W	61.0	88.5	63.7	67.0	86.5	72.7	76.4
July 1993 .....	91.4	63.5	67.1	87.3	W	59.4	90.1	63.4	66.3	88.0	73.3	74.5
August 1992 ...	96.8	72.0	75.7	91.7	W	69.2	95.2	71.8	74.9	91.7	81.0	80.4
<b>Wisconsin</b>												
August 1993 ....	84.0	W	68.7	W	W	64.2	83.0	81.5	67.8	83.7	82.8	70.5
July 1993 .....	83.9	W	67.6	W	-	62.5	83.3	W	66.6	84.8	84.7	70.1
August 1992 ...	92.5	W	75.9	W	W	71.9	91.4	W	75.1	91.9	88.1	75.9
<b>PAD District III Average</b>												
August 1993	90.9	66.4	68.7	89.5	62.8	59.2	90.5	65.7	65.9	88.5	77.0	73.3
July 1993 .....	92.3	67.0	67.2	90.8	NA	59.7	91.9	66.1	65.4	89.0	76.8	73.8
August 1992 .....	95.6	71.6	74.5	94.7	72.2	68.3	95.4	71.7	73.0	91.8	81.8	81.1
<b>Alabama</b>												
August 1993 ....	90.6	64.9	67.7	82.7	W	61.0	88.7	64.4	66.7	92.3	80.2	78.1
July 1993 .....	91.9	65.1	66.7	84.5	W	59.8	90.2	64.5	65.7	91.9	78.8	77.5
August 1992 ...	96.2	73.4	75.1	92.7	W	69.8	95.4	72.4	74.4	95.6	86.5	85.8
<b>Arkansas</b>												
August 1993 ....	93.0	-	66.3	W	W	61.3	90.7	W	64.9	88.6	70.1	68.1
July 1993 .....	93.9	W	65.4	W	-	59.8	92.0	W	63.4	88.7	72.5	67.9
August 1992 .	97.4	-	73.9	W	W	69.4	93.7	W	72.7	88.7	82.1	74.8
<b>Louisiana</b>												
August 1993 ....	91.8	62.4	71.0	94.3	NA	59.7	92.1	62.9	68.4	89.5	78.3	74.9
July 1993 .....	92.4	62.7	67.9	94.3	NA	59.9	92.6	63.5	66.5	89.7	78.6	74.9
August 1992 .....	95.5	70.1	75.4	96.0	NA	68.7	95.5	72.1	74.1	89.3	80.6	81.9
<b>Mississippi</b>												
August 1993 ...	88.5	63.6	66.0	88.5	62.0	60.9	88.5	63.0	65.0	87.4	78.3	76.1
July 1993 .....	89.1	W	61.8	87.7	59.3	59.8	88.6	62.9	61.5	88.4	78.3	75.7
August 1992 .....	93.4	W	72.6	89.1	69.2	69.6	91.5	69.9	71.9	92.0	85.2	78.6
<b>New Mexico</b>												
August 1993 ...	101.1	W	76.7	101.3	-	71.2	101.3	W	75.5	95.8	85.4	81.9
July 1993 .....	103.5	W	79.0	102.1	-	73.2	102.5	W	77.6	97.3	87.1	82.3
August 1992 .....	102.1	W	82.9	103.4	-	80.4	103.0	W	82.4	96.9	92.4	88.6
<b>Texas</b>												
August 1993 ....	90.6	67.1	68.8	88.8	82.5	58.2	90.1	66.0	64.9	85.8	76.9	72.5
July 1993 .....	92.2	68.4	68.2	90.3	NA	59.0	91.7	66.6	65.8	86.7	74.8	73.6
August 1992 ...	95.5	71.4	73.9	94.5	72.2	67.3	95.3	71.4	72.1	91.5	77.9	80.8
<b>PAD District IV Average</b>												
August 1993 .....	91.6	W	72.6	96.1	W	70.3	93.1	69.8	72.0	89.0	83.7	75.0
July 1993 .....	91.5	72.4	74.1	96.9	W	70.3	93.2	72.7	73.1	88.7	84.0	76.0
August 1992 .....	100.0	82.2	84.6	104.6	W	81.3	101.4	83.0	83.5	99.8	94.2	87.4

See footnotes at end of table

**Table 34. Refiner/Reseller Premium Gasoline Prices  
by Seller, PAD District, and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Major Refiners			Other Refiners			All Refiners			Resellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>												
August 1993 ... ..	97.2	W	71.9	97.3	W	67.1	97.2	70.1	70.4	94.6	81.8	72.6
July 1993 . . . . .	96.6	W	71.8	98.2	W	65.4	97.2	W	69.9	94.1	80.3	72.5
August 1992 . . . . .	102.1	W	84.8	105.1	W	78.4	103.2	W	82.0	100.9	90.7	84.9
<b>Idaho</b>												
August 1993 . . . . .	-	W	75.4	W	-	74.0	W	W	75.1	83.0	86.9	78.8
July 1993 . . . . .	-	W	76.4	W	-	74.8	W	W	78.1	84.1	87.3	80.6
August 1992 . . . . .	W	W	87.6	W	-	86.1	101.6	W	87.3	99.8	96.5	90.6
<b>Montana</b>												
August 1993 . . . . .	-	-	75.3	W	-	75.0	W	-	75.2	94.8	89.2	76.3
July 1993 . . . . .	-	W	79.4	W	W	79.0	W	W	79.3	94.5	91.4	78.3
August 1992 . . . . .	W	W	86.5	W	-	87.2	W	W	86.7	101.9	NA	89.3
<b>Utah</b>												
August 1993 . . . . .	82.9	W	70.5	W	W	69.9	82.9	W	70.4	85.1	NA	74.9
July 1993 . . . . .	83.1	W	72.6	W	W	70.6	83.1	71.6	72.2	84.3	80.4	76.5
August 1992 . . . . .	95.5	W	82.4	W	W	80.7	95.6	82.3	82.0	95.3	89.5	85.6
<b>Wyoming</b>												
August 1993 . . . . .	W	W	72.9	W	W	71.2	89.5	71.5	72.3	93.0	85.7	76.4
July 1993 . . . . .	W	-	74.6	W	W	71.3	92.6	W	73.4	94.7	92.0	75.7
August 1992 . . . . .	W	W	83.7	W	W	83.8	102.0	83.8	83.8	107.2	100.3	88.2
<b>PAD District V Average</b>												
August 1993 . . . . .	96.7	79.3	82.2	94.6	79.5	70.8	96.3	79.4	81.2	99.2	88.3	76.8
July 1993 . . . . .	98.0	78.1	83.0	96.0	77.9	68.1	97.6	78.0	81.5	100.2	87.5	78.5
August 1992 . . . . .	104.8	83.7	92.1	102.2	88.0	75.1	104.2	84.9	90.3	104.5	93.4	87.1
<b>Alaska</b>												
August 1993 . . . . .	W	-	85.8	108.5	W	W	107.1	W	84.2	NA	104.5	96.7
July 1993 . . . . .	W	W	86.1	108.2	W	W	106.8	W	84.1	NA	109.3	94.6
August 1992 . . . . .	W	W	91.6	113.4	W	W	111.6	104.5	89.5	127.0	108.7	98.3
<b>Arizona</b>												
August 1993 . . . . .	99.6	W	84.4	W	-	76.3	99.5	W	84.0	100.8	81.1	89.1
July 1993 . . . . .	99.2	W	84.6	W	-	74.5	99.2	W	84.1	101.1	78.8	88.0
August 1992 . . . . .	102.1	W	88.7	W	W	78.8	102.2	81.9	88.2	103.4	89.1	90.4
<b>California</b>												
August 1993 . . . . .	95.8	78.6	81.8	90.0	W	69.3	94.5	78.5	80.5	92.6	87.0	72.2
July 1993 . . . . .	97.4	77.1	82.4	91.7	W	66.5	96.1	76.9	80.7	94.7	85.9	74.2
August 1992 . . . . .	105.0	82.8	92.5	99.4	W	73.6	103.7	82.6	90.3	102.6	92.6	84.3
<b>Hawaii</b>												
August 1993 . . . . .	W	W	104.9	W	W	W	117.7	W	103.7	132.3	114.8	115.6
July 1993 . . . . .	W	W	105.0	W	W	W	117.9	W	104.1	133.7	114.6	115.7
August 1992 . . . . .	W	W	104.3	W	W	W	119.0	85.9	103.6	W	122.7	114.5
<b>Nevada</b>												
August 1993 . . . . .	93.0	W	79.7	W	-	76.4	92.7	W	79.5	101.1	82.1	78.0
July 1993 . . . . .	W	W	80.0	W	W	73.5	93.0	W	79.3	101.8	81.5	75.8
August 1992 . . . . .	97.8	W	87.5	W	W	82.8	97.9	88.1	87.1	104.5	85.2	88.1
<b>Oregon</b>												
August 1993 . . . . .	102.3	W	82.2	W	W	74.9	102.6	W	81.7	100.3	92.3	89.3
July 1993 . . . . .	103.2	-	84.6	W	W	71.7	103.4	W	83.7	99.3	91.0	88.9
August 1992 . . . . .	108.6	W	89.9	W	-	85.1	109.3	W	89.6	109.1	98.0	92.0
<b>Washington</b>												
August 1993 . . . . .	94.8	W	79.7	W	-	75.1	94.8	W	W	95.4	86.4	82.4
July 1993 . . . . .	96.3	W	80.6	W	-	74.2	96.3	W	80.3	97.2	88.2	83.5
August 1992 . . . . .	103.7	W	80.0	W	W	85.7	103.7	88.8	W	103.5	95.3	91.8

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Refiners and Gas Plant Operators: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers: Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report"

**Table 35. Refiner Prices of Aviation Fuels and Propane  
by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>						
August 1993 .....	98.8	96.9	54.6	55.2	62.6	33.3
July 1993 .....	99.7	97.9	55.3	55.1	62.2	33.3
August 1992 ....	105.7	102.6	64.2	63.9	55.8	32.9
<b>PAD District I Average</b>						
August 1993 ... ..	96.8	93.2	52.8	54.5	NA	36.1
July 1993 ... ..	97.8	94.3	54.0	54.8	NA	36.4
August 1992 ....	104.2	99.0	63.7	64.1	W	39.3
<b>Subdistrict IA Average</b>						
August 1993 ... ..	W	W	56.1	57.8	W	37.3
July 1993 ... ..	W	W	57.0	58.2	W	37.3
August 1992 ... ..	W	W	67.1	70.7	W	40.6
<b>Connecticut</b>						
August 1993 ... ..	W	W	55.6	W	W	38.0
July 1993 ... ..	W	W	57.0	W	W	39.1
August 1992 ... ..	W	W	66.3	W	W	40.5
<b>Maine</b>						
August 1993 ... ..	W	-	W	W	W	38.0
July 1993 ... ..	W	-	W	W	W	40.4
August 1992 ... ..	W	-	W	W	W	W
<b>Massachusetts</b>						
August 1993 ... ..	W	W	55.0	57.3	W	36.3
July 1993 ... ..	W	W	55.9	57.6	W	37.5
August 1992 ... ..	W	W	65.7	70.6	W	41.4
<b>New Hampshire</b>						
August 1993 ... ..	W	W	57.3	W	W	NA
July 1993 ... ..	W	W	58.5	W	NA	32.9
August 1992 ... ..	W	W	69.0	W	W	37.6
<b>Rhode Island</b>						
August 1993 ... ..	W	W	56.8	W	-	NA
July 1993 ... ..	W	W	57.5	W	-	NA
August 1992 ... ..	W	W	67.9	W	-	43.3
<b>Vermont</b>						
August 1993 ... ..	W	W	W	-	NA	34.9
July 1993 ... ..	W	W	W	W	NA	41.6
August 1992 ... ..	W	W	W	W	W	42.3
<b>Subdistrict IB Average</b>						
August 1993 ... ..	98.3	91.8	52.2	53.3	35.1	32.9
July 1993 ... ..	99.1	94.5	53.3	53.8	W	33.5
August 1992 ... ..	W	NA	62.9	62.5	W	36.0
<b>Delaware</b>						
August 1993 ... ..	W	W	61.3	W	-	W
July 1993 ... ..	W	W	62.9	W	-	W
August 1992 ... ..	W	W	72.4	W	-	W
<b>District of Columbia</b>						
August 1993 ... ..	W	-	W	-	-	-
July 1993 ... ..	W	-	W	-	-	-
August 1992 ... ..	W	-	-	-	-	-
<b>Maryland</b>						
August 1993 ... ..	W	W	52.1	W	-	34.3
July 1993 ... ..	W	W	52.8	55.8	NA	W
August 1992 ... ..	W	W	62.7	68.0	W	W
<b>New Jersey</b>						
August 1993 ... ..	96.6	W	51.9	52.7	W	33.8
July 1993 ... ..	97.7	W	53.1	53.8	W	33.6
August 1992 ... ..	W	W	62.7	61.3	73.0	33.7
<b>New York</b>						
August 1993 ... ..	W	W	56.0	54.8	W	38.7
July 1993 ... ..	W	W	57.5	53.6	W	39.8
August 1992 ... ..	W	W	68.6	67.4	W	41.7
<b>Pennsylvania</b>						
August 1993 ... ..	W	98.7	52.1	53.1	W	32.0
July 1993 ... ..	W	99.2	52.8	53.8	NA	31.5
August 1992 ... ..	W	103.2	62.5	63.5	W	35.9
<b>Subdistrict IC Average</b>						
August 1993 ... ..	94.3	94.1	52.8	56.8	NA	37.5
July 1993 ... ..	95.6	94.8	54.0	56.7	NA	38.0
August 1992 ... ..	101.8	98.3	63.9	68.5	75.7	41.1

See footnotes at end of table.

**Table 35. Refiner Prices of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Florida</b>						
August 1993	91.4	91.8	53.3	56.8	W	40.3
July 1993	92.9	90.4	55.0	57.8	W	42.0
August 1992	99.8	95.7	65.0	69.5	W	43.5
<b>Georgia</b>						
August 1993	97.0	W	51.9	55.3	W	36.2
July 1993	96.9	98.4	52.7	53.2	NA	36.9
August 1992	102.8	W	62.9	66.4	W	40.3
<b>North Carolina</b>						
August 1993	W	W	53.3	58.6	W	37.3
July 1993	W	W	53.3	57.8	NA	37.9
August 1992	W	W	63.0	71.3	W	40.8
<b>South Carolina</b>						
August 1993	W	95.2	57.2	W	53.1	36.9
July 1993	W	97.5	57.8	W	W	37.5
August 1992	W	99.4	67.9	W	W	40.6
<b>Virginia</b>						
August 1993	W	95.0	52.1	57.0	NA	37.7
July 1993	102.8	100.7	53.4	57.3	67.4	35.3
August 1992	109.3	W	62.9	67.3	64.8	40.9
<b>West Virginia</b>						
August 1993	W	W	W	W	NA	W
July 1993	W	W	W	W	NA	W
August 1992	W	W	73.1	W	W	38.8
<b>PAD District II Average</b>						
August 1993	96.1	95.2	53.2	54.4	74.5	34.3
July 1993	97.4	96.0	54.3	55.9	73.9	34.1
August 1992	98.1	97.0	63.8	65.5	55.4	29.0
<b>Illinois</b>						
August 1993	W	W	51.7	54.5	73.3	34.5
July 1993	W	W	52.9	55.7	73.6	34.9
August 1992	W	W	63.0	65.3	68.0	29.3
<b>Indiana</b>						
August 1993	W	95.6	51.6	51.7	82.8	36.6
July 1993	98.7	95.7	53.0	52.3	83.5	36.4
August 1992	98.3	95.2	62.5	61.8	70.8	31.3
<b>Iowa</b>						
August 1993	-	95.1	57.3	59.6	W	36.6
July 1993	W	96.0	58.6	60.8	W	36.1
August 1992	W	98.4	67.6	69.3	W	28.1
<b>Kansas</b>						
August 1993	W	93.1	W	W	W	33.1
July 1993	W	93.6	W	W	36.1	33.1
August 1992	W	96.4	62.4	73.1	W	26.5
<b>Kentucky</b>						
August 1993	W	W	55.3	55.0	W	32.5
July 1993	W	97.1	56.0	56.1	W	32.6
August 1992	W	W	65.1	66.3	38.6	28.1
<b>Michigan</b>						
August 1993	W	W	54.1	56.8	NA	34.9
July 1993	W	W	54.9	56.8	NA	35.3
August 1992	W	W	64.1	67.4	83.8	33.0
<b>Minnesota</b>						
August 1993	W	96.0	54.6	57.6	W	35.8
July 1993	W	97.8	56.4	58.2	W	35.5
August 1992	W	98.5	64.6	67.4	28.5	28.7
<b>Missouri</b>						
August 1993	W	95.1	53.2	58.5	W	36.4
July 1993	W	95.9	54.1	59.7	W	35.7
August 1992	W	97.1	64.1	70.6	64.2	29.0
	W	93.5	54.9	59.5	-	36.9
	W	94.7	55.4	61.7	-	35.9
	W	96.9	64.7	74.8	W	28.7
			60.6	65.6	W	34.5
			63.4	67.9	W	31.6
			68.3	71.2	W	25.7

**Table 35. Refiner Prices of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Ohio</b>						
August 1993 .....	W	97.2	53.6	55.7	87.7	33.6
July 1993 .....	W	97.5	55.6	57.9	82.6	35.1
August 1992 .....	W	96.2	65.0	66.4	77.0	33.9
<b>Oklahoma</b>						
August 1993 .....	W	91.6	52.1	51.3	NA	31.7
July 1993 .....	W	93.6	52.5	52.3	51.5	31.9
August 1992 .....	W	95.5	63.3	61.6	W	27.0
<b>South Dakota</b>						
August 1993 .....	W	W	61.0	W	W	37.3
July 1993 .....	W	W	63.0	W	W	36.7
August 1992 .....	W	W	72.9	W	W	29.4
<b>Tennessee</b>						
August 1993 .....	W	94.0	54.2	58.0	NA	39.6
July 1993 .....	96.8	94.3	54.5	58.0	NA	38.8
August 1992 .....	W	96.8	63.3	68.8	W	38.0
<b>Wisconsin</b>						
August 1993 .....	-	95.9	54.2	56.4	75.1	36.9
July 1993 .....	W	96.3	54.6	60.5	77.2	36.4
August 1992 .....	W	97.6	65.0	68.2	69.8	29.2
<b>PAD District III Average</b>						
August 1993 .....	93.4	86.3	50.6	52.7	38.1	31.4
July 1993 .....	94.4	86.3	51.4	51.8	39.8	32.4
August 1992 .....	101.8	93.6	61.3	61.0	38.4	34.9
<b>Alabama</b>						
August 1993 .....	96.0	95.9	55.9	57.2	79.3	34.5
July 1993 .....	97.4	96.0	56.7	58.6	NA	34.8
August 1992 .....	104.5	100.2	66.1	69.6	76.7	38.5
<b>Arkansas</b>						
August 1993 .....	W	W	56.2	56.5	W	39.4
July 1993 .....	W	W	57.6	58.2	W	40.4
August 1992 .....	W	W	68.0	69.1	W	40.0
<b>Louisiana</b>						
August 1993 .....	W	90.5	50.4	50.4	34.7	31.0
July 1993 .....	W	88.9	51.9	51.4	W	32.5
August 1992 .....	W	98.9	61.6	60.7	39.1	34.8
<b>Mississippi</b>						
August 1993 .....	95.2	93.6	50.1	54.0	W	33.9
July 1993 .....	96.4	94.3	51.1	51.3	W	34.5
August 1992 .....	W	98.3	61.3	61.6	W	37.6
<b>New Mexico</b>						
August 1993 .....	W	W	56.9	56.2	W	32.0
July 1993 .....	W	W	53.9	56.4	35.7	32.8
August 1992 .....	W	W	63.6	67.9	29.7	30.8
<b>Texas</b>						
August 1993 .....	92.0	83.1	50.5	52.8	32.5	30.9
July 1993 .....	93.5	82.5	51.1	51.8	33.8	32.1
August 1992 .....	101.3	90.7	61.1	60.7	34.8	34.6
<b>PAD District IV Average</b>						
August 1993 .....	101.6	100.7	57.6	60.8	NA	31.7
July 1993 .....	103.5	101.3	58.5	61.8	NA	30.4
August 1992 .....	114.0	106.0	67.0	71.9	W	24.8
<b>Colorado</b>						
August 1993 .....	W	98.1	53.6	56.8	66.7	32.4
July 1993 .....	W	99.4	54.6	57.3	NA	31.9
August 1992 .....	W	103.4	63.5	68.0	69.9	26.3
<b>Idaho</b>						
August 1993 .....	W	111.5	69.2	72.6	W	37.4
July 1993 .....	W	113.5	69.3	73.0	W	34.3
August 1992 .....	W	W	75.8	78.6	W	24.4
<b>Montana</b>						
August 1993 .....	W	W	67.9	W	NA	32.1
July 1993 .....	W	W	69.4	W	W	30.3
August 1992 .....	W	W	77.1	W	W	24.6

See footnotes at end of table.

**Table 35. Refiner Prices of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Utah</b>						
August 1993 .....	96.0	101.2	62.1	64.6	NA	34.7
July 1993 .....	NA	101.3	62.5	65.5	NA	33.4
August 1992 .....	110.8	106.4	69.5	75.3	W	25.4
<b>Wyoming</b>						
August 1993 .....	W	W	74.4	W	43.3	30.2
July 1993 .....	W	W	74.3	W	45.3	28.1
August 1992 .....	W	W	81.0	W	NA	23.3
<b>PAD District V Average</b>						
August 1993 .....	108.4	106.7	59.4	59.3	NA	34.8
July 1993 .....	108.7	108.4	59.7	58.9	NA	31.7
August 1992 .....	115.0	112.2	66.6	66.2	74.6	26.6
<b>Alaska</b>						
August 1993 .....	W	119.4	64.3	W	NA	W
July 1993 .....	W	119.0	65.6	W	NA	W
August 1992 .....	W	W	72.5	W	W	W
<b>Arizona</b>						
August 1993 .....	W	100.0	60.6	62.5	NA	NA
July 1993 .....	W	99.3	60.7	64.6	NA	40.1
August 1992 .....	W	W	68.4	70.9	W	33.9
<b>California</b>						
August 1993 .....	105.1	101.2	58.1	58.0	W	36.7
July 1993 .....	105.0	102.2	58.3	58.7	W	32.6
August 1992 .....	115.1	108.1	65.1	65.2	W	25.5
<b>Hawaii</b>						
August 1993 .....	W	W	61.4	W	W	W
July 1993 .....	W	W	61.6	W	W	W
August 1992 .....	W	W	70.5	87.5	W	W
<b>Nevada</b>						
August 1993 .....	W	W	61.1	60.9	NA	NA
July 1993 .....	W	W	61.0	62.6	NA	W
August 1992 .....	W	W	68.1	69.8	W	W
<b>Oregon</b>						
August 1993 .....	W	104.0	59.9	64.5	W	38.6
July 1993 .....	W	104.0	60.0	66.2	W	37.9
August 1992 .....	-	108.8	66.7	74.0	W	33.7
<b>Washington</b>						
August 1993 .....	108.5	107.4	58.3	62.4	NA	27.1
July 1993 .....	109.7	W	59.1	NA	NA	25.1
August 1992 .....	W	109.8	64.7	64.8	W	21.8

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data.

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 36. Refiner Prices of Kerosene and Distillates  
by PAD District and State**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>						
August 1993 .. .	61.9	55.6	58.9	57.9	56.0	52.2
July 1993 .. .	61.4	53.6	61.5	59.0	56.6	52.2
August 1992 .. .	69.0	64.2	68.2	68.0	63.3	60.3
<b>PAD District I Average</b>						
August 1993 .. .	62.4	57.4	61.0	54.7	56.2	52.3
July 1993 .. .	61.2	55.1	57.7	55.9	56.0	51.4
August 1992 .. .	68.0	65.9	65.9	64.7	63.5	60.2
<b>Subdistrict IA Average</b>						
August 1993 .. .	62.5	58.2	59.1	W	56.8	53.1
July 1993 .. .	W	55.9	55.7	W	55.4	52.4
August 1992 .. .	68.0	66.4	W	64.1	63.5	60.2
<b>Connecticut</b>						
August 1993 .. .	W	59.0	W	W	55.5	52.6
July 1993 .. .	W	W	W	W	55.2	52.3
August 1992 .. .	W	W	W	W	63.8	59.7
<b>Maine</b>						
August 1993 .. .	-	60.0	-	W	W	53.4
July 1993 .. .	-	W	W	W	51.9	52.0
August 1992 .. .	-	69.0	-	64.8	62.1	60.2
<b>Massachusetts</b>						
August 1993 .. .	W	W	W	W	58.3	53.6
July 1993 .. .	W	W	W	W	56.7	52.7
August 1992 .. .	W	64.0	-	W	63.8	60.2
<b>New Hampshire</b>						
August 1993 .. .	W	W	W	-	56.9	53.8
July 1993 .. .	-	W	W	-	52.7	52.6
August 1992 .. .	-	W	W	W	61.4	60.9
<b>Rhode Island</b>						
August 1993 .. .	-	W	-	-	54.1	52.8
July 1993 .. .	-	-	W	-	53.7	51.9
August 1992 .. .	-	-	W	W	62.2	60.8
<b>Vermont</b>						
August 1993 .. .	-	W	-	W	57.2	W
July 1993 .. .	-	W	-	-	W	W
August 1992 .. .	-	W	-	-	64.7	62.0
<b>Subdistrict IB Average</b>						
August 1993 .. .	W	56.7	65.0	57.6	57.3	52.0
July 1993 .. .	W	54.6	62.7	56.8	56.7	51.4
August 1992 .. .	67.7	64.8	72.2	64.4	64.5	60.0
<b>Delaware</b>						
August 1993 .. .	-	W	-	W	55.0	52.3
July 1993 .. .	-	W	W	W	54.7	50.6
August 1992 .. .	-	W	W	W	61.7	W
<b>District of Columbia</b>						
August 1993 .. .	-	W	-	-	NA	52.9
July 1993 .. .	-	-	-	-	53.0	53.7
August 1992 .. .	-	-	-	-	W	64.3
<b>Maryland</b>						
August 1993 .. .	NA	58.4	W	-	52.5	53.1
July 1993 .. .	W	56.6	W	W	53.3	52.5
August 1992 .. .	W	66.1	W	W	61.5	61.8
<b>New Jersey</b>						
August 1993 .. .	W	54.6	W	W	56.2	51.3
July 1993 .. .	W	53.9	W	W	55.8	50.7
August 1992 .. .	W	63.5	W	62.6	63.6	59.3
<b>New York</b>						
August 1993 .. .	W	58.3	W	W	59.3	52.5
July 1993 .. .	W	53.5	W	56.3	57.8	52.4
August 1992 .. .	72.3	66.8	W	64.4	66.4	60.5
<b>Pennsylvania</b>						
August 1993 .. .	72.5	57.7	78.0	58.4	58.4	52.1
July 1993 .. .	72.5	57.3	76.1	57.6	57.5	51.6
August 1992 .. .	79.2	64.3	86.4	65.0	64.8	60.4
<b>Subdistrict IC Average</b>						
August 1993 .. .	60.6	58.0	60.0	56.4	55.6	52.6
July 1993 .. .	61.7	56.0	57.3	54.6	55.7	51.2
August 1992 .. .	80.8	67.2	66.7	66.0	63.0	60.3

See footnotes at end of table.

**Table 36. Refiner Prices of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Florida</b>						
August 1993	69.4	55.9	W	W	55.4	52.6
July 1993	W	56.0	W	W	55.6	51.5
August 1992	89.8	68.1	W	W	63.2	60.5
<b>Georgia</b>						
August 1993	NA	58.6	-	W	56.2	52.4
July 1993	NA	57.1	W	W	56.5	50.7
August 1992	94.8	66.7	W	W	63.2	59.7
<b>North Carolina</b>						
August 1993	W	58.3	W	W	54.1	52.7
July 1993	NA	55.6	NA	W	53.6	51.1
August 1992	NA	67.7	68.9	63.7	61.3	60.0
<b>South Carolina</b>						
August 1993	NA	58.2	W	-	55.8	52.7
July 1993	NA	W	-	-	56.2	51.3
August 1992	87.0	67.0	W	-	62.6	60.7
<b>Virginia</b>						
August 1993	56.7	57.4	54.8	56.1	55.2	52.4
July 1993	59.1	55.8	W	56.8	55.2	51.3
August 1992	69.1	66.0	60.9	65.9	62.2	60.3
<b>West Virginia</b>						
August 1993	NA	60.4	W	62.6	57.4	52.7
July 1993	W	61.8	W	W	57.9	52.6
August 1992	NA	69.2	W	71.5	66.9	61.6
<b>PAD District II Average</b>						
August 1993	60.5	58.6	53.0	54.2	53.3	50.8
July 1993	61.9	58.9	55.4	55.6	54.7	51.5
August 1992	79.0	68.8	65.5	65.3	62.7	61.4
<b>Illinois</b>						
August 1993	60.1	W	W	51.7	50.5	47.6
July 1993	62.3	54.9	W	53.9	52.9	49.3
August 1992	72.7	W	W	65.0	60.9	59.4
<b>Indiana</b>						
August 1993	69.0	58.9	W	53.3	51.6	48.2
July 1993	W	59.5	W	55.6	53.5	50.0
August 1992	89.8	69.7	79.0	66.0	61.5	60.1
<b>Iowa</b>						
August 1993	-	66.6	W	57.3	52.3	51.0
July 1993	-	W	W	56.6	54.3	52.2
August 1992	-	W	W	68.2	63.0	62.9
<b>Kansas</b>						
August 1993	-	W	W	54.4	53.6	53.0
July 1993	-	W	-	54.8	53.7	51.9
August 1992	-	72.4	W	63.4	61.8	61.2
<b>Kentucky</b>						
August 1993	76.8	59.8	W	56.3	55.7	52.0
July 1993	NA	58.2	W	58.5	56.3	51.9
August 1992	97.9	68.6	73.2	67.5	64.0	61.3
<b>Michigan</b>						
August 1993	NA	56.7	W	52.4	51.2	48.2
July 1993	NA	58.5	W	55.6	54.0	51.0
August 1992	NA	68.1	W	67.2	62.3	61.0
<b>Minnesota</b>						
August 1993	W	64.9	W	57.8	52.5	52.5
July 1993	W	63.3	W	59.2	53.1	53.0
August 1992	W	W	W	70.0	64.5	64.0
<b>Missouri</b>						
August 1993	-	W	W	69.5	53.1	52.3
July 1993	-	58.0	W	57.6	55.2	51.7
August 1992	-	69.3	W	65.9	63.2	61.5
<b>Nebraska</b>						
August 1993	-	W	-	57.0	50.1	54.3
July 1993	-	W	-	56.3	W	53.8
August 1992	-	W	W	66.8	W	63.3
<b>North Dakota</b>						
August 1993	-	W	W	61.0	W	55.8
July 1993	-	-	-	60.4	W	55.7
August 1992	W	W	W	69.3	W	64.7

See footnotes at end of table.



**Table 36. Refiner Prices of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Ohio</b>						
August 1993 . . . . .	58.9	56.9	89.4	55.6	56.1	50.8
July 1993 . . . . .	60.4	58.4	84.8	57.3	57.9	52.7
August 1992 . . . . .	78.2	68.3	79.7	65.6	64.2	61.9
<b>Oklahoma</b>						
August 1993 . . . . .	-	W	W	53.6	53.4	51.4
July 1993 . . . . .	W	W	W	W	52.8	51.3
August 1992 . . . . .	-	68.0	W	W	61.5	60.4
<b>South Dakota</b>						
August 1993 . . . . .	-	64.7	-	55.8	W	55.7
July 1993 . . . . .	-	-	-	57.6	53.6	55.2
August 1992 . . . . .	-	W	W	68.0	W	64.2
<b>Tennessee</b>						
August 1993 . . . . .	66.1	61.0	W	56.4	55.2	52.1
July 1993 . . . . .	NA	59.6	W	57.6	54.9	50.7
August 1992 . . . . .	W	67.6	W	67.3	62.4	60.0
<b>Wisconsin</b>						
August 1993 . . . . .	W	62.1	W	54.0	50.6	48.7
July 1993 . . . . .	W	62.1	W	55.3	52.9	50.6
August 1992 . . . . .	W	73.4	W	66.4	62.7	61.9
<b>PAD District III Average</b>						
August 1993 . . . . .	61.7	W	W	54.8	56.0	60.6
July 1993 . . . . .	62.1	50.7	W	58.6	55.8	60.0
August 1992 . . . . .	70.6	60.6	63.6	66.3	62.1	58.8
<b>Alabama</b>						
August 1993 . . . . .	W	57.6	W	W	54.5	52.0
July 1993 . . . . .	W	55.9	W	W	53.6	50.3
August 1992 . . . . .	W	67.8	W	W	61.8	59.6
<b>Arkansas</b>						
August 1993 . . . . .	-	56.1	-	W	55.8	51.3
July 1993 . . . . .	-	55.4	-	W	56.2	50.7
August 1992 . . . . .	-	64.7	-	-	62.5	59.8
<b>Louisiana</b>						
August 1993 . . . . .	W	W	-	W	54.7	50.0
July 1993 . . . . .	W	W	-	W	53.7	49.0
August 1992 . . . . .	W	59.3	-	61.4	59.1	57.9
<b>Mississippi</b>						
August 1993 . . . . .	W	W	-	W	52.4	49.6
July 1993 . . . . .	W	W	W	W	52.3	49.2
August 1992 . . . . .	W	W	W	W	59.8	59.0
<b>New Mexico</b>						
August 1993 . . . . .	-	NA	-	65.6	69.5	57.2
July 1993 . . . . .	-	66.2	-	67.8	68.2	58.7
August 1992 . . . . .	-	80.8	W	74.7	73.6	65.0
<b>Texas</b>						
August 1993 . . . . .	W	58.7	W	58.4	55.8	50.6
July 1993 . . . . .	W	56.2	W	64.0	55.7	50.0
August 1992 . . . . .	W	61.5	W	68.1	62.0	58.5
<b>PAD District IV Average</b>						
August 1993 . . . . .	-	70.0	W	65.4	58.7	57.7
July 1993 . . . . .	-	69.4	W	66.1	59.5	58.1
August 1992 . . . . .	-	W	W	72.1	66.4	65.2
<b>Colorado</b>						
August 1993 . . . . .	-	W	W	61.6	60.5	56.0
July 1993 . . . . .	-	W	W	63.2	59.7	56.8
August 1992 . . . . .	-	W	W	71.8	68.2	66.5
<b>Idaho</b>						
August 1993 . . . . .	-	W	-	67.7	W	60.5
July 1993 . . . . .	-	-	-	69.9	W	63.5
August 1992 . . . . .	-	-	-	72.0	W	65.6
<b>Montana</b>						
August 1993 . . . . .	-	-	-	65.1	56.0	56.0
July 1993 . . . . .	-	-	-	62.6	55.9	54.3
August 1992 . . . . .	-	-	-	71.1	60.4	61.2

See footnotes at end of table.

**Table 36. Refiner Prices of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Utah</b>						
August 1993 . . . . .	-	W	W	67.7	57.3	58.8
July 1993 . . . . .	-	W	W	68.8	59.4	59.9
August 1992 . . . . .	-	W	W	74.0	65.7	66.2
<b>Wyoming</b>						
August 1993 . . . . .	-	-	W	67.8	59.8	57.9
July 1993 . . . . .	-	-	W	68.3	60.3	57.8
August 1992 . . . . .	-	-	W	74.5	67.5	65.8
<b>PAD District V Average</b>						
August 1993 . . . . .	-	NA	74.2	69.7	61.7	56.1
July 1993 . . . . .	-	66.4	75.7	69.6	63.0	57.1
August 1992 . . . . .	-	71.4	78.7	74.0	64.5	59.5
<b>Alaska</b>						
August 1993 . . . . .	-	-	NA	70.8	78.9	58.1
July 1993 . . . . .	-	-	76.9	70.5	74.9	59.0
August 1992 . . . . .	-	-	85.9	74.7	84.1	67.8
<b>Arizona</b>						
August 1993 . . . . .	-	-	-	68.0	61.1	56.7
July 1993 . . . . .	-	W	-	W	64.0	58.3
August 1992 . . . . .	-	W	W	67.9	64.4	59.0
<b>California</b>						
August 1993 . . . . .	-	W	W	65.4	60.8	55.7
July 1993 . . . . .	-	64.6	W	65.6	62.5	56.9
August 1992 . . . . .	-	76.5	71.3	68.6	65.1	59.3
<b>Hawaii</b>						
August 1993 . . . . .	-	-	W	W	66.5	72.9
July 1993 . . . . .	-	-	W	W	67.2	74.2
August 1992 . . . . .	-	-	W	W	66.6	71.6
<b>Nevada</b>						
August 1993 . . . . .	-	-	W	W	61.7	58.7
July 1993 . . . . .	-	-	W	W	64.7	59.5
August 1992 . . . . .	-	-	W	70.8	67.6	61.4
<b>Oregon</b>						
August 1993 . . . . .	-	-	W	69.1	58.0	56.4
July 1993 . . . . .	-	-	W	69.7	58.5	56.4
August 1992 . . . . .	-	71.7	W	66.6	59.4	58.6
<b>Washington</b>						
August 1993 . . . . .	-	W	W	65.8	60.1	54.8
July 1993 . . . . .	-	W	W	67.1	59.7	55.5
August 1992 . . . . .	-	68.8	W	73.2	59.3	57.9

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: PAD District and U.S. averages represent data for all States. In certain PAD Districts, however, prices are not shown for every State.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 37. No. 2 Distillate Prices by Seller, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Refiners			Resellers and Retailers			All Sellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users	
<b>U.S. Average</b>									
August 1993 .. . . .	77.7	55.8	52.2	84.2	66.2	55.3	84.0	63.2	53.0
July 1993 .. . . .	78.7	55.5	52.2	85.7	66.4	55.0	85.6	63.5	53.0
August 1992 .. . . .	81.9	63.2	60.3	88.8	71.8	62.8	88.6	69.0	60.9
<b>PAD District I Average</b>									
August 1993 .. . . .	75.9	55.9	52.3	84.7	65.6	55.1	84.5	62.6	53.4
July 1993 .. . . .	76.7	55.8	51.4	86.1	65.9	54.4	85.9	62.8	52.6
August 1992 .. . . .	80.7	63.3	60.2	89.9	71.4	61.9	89.8	68.7	60.8
<b>Subdistrict IA Average</b>									
August 1993 .. . . .	W	56.3	53.1	82.1	67.6	54.7	82.1	65.5	54.1
July 1993 .. . . .	W	54.8	52.4	83.7	68.2	54.4	83.7	66.0	53.7
August 1992 .. . . .	W	63.1	60.2	88.6	74.4	61.7	88.6	72.8	61.1
<b>Connecticut</b>									
August 1993 .. . . .	-	55.5	52.6	83.9	67.8	55.4	83.9	64.5	53.8
July 1993 .. . . .	-	55.2	52.3	86.5	68.5	54.4	86.5	65.0	53.6
August 1992 .. . . .	-	63.8	59.7	90.5	77.6	61.6	90.5	75.6	60.4
<b>Maine</b>									
August 1993 .. . . .	-	W	53.4	77.4	67.7	55.0	77.4	66.8	54.6
July 1993 .. . . .	-	51.9	52.0	78.2	68.2	54.5	78.2	67.1	53.8
August 1992 .. . . .	-	62.1	60.2	87.8	74.5	63.9	87.8	73.8	62.4
<b>Massachusetts</b>									
August 1993 .. . . .	W	57.5	53.6	83.1	66.6	54.5	83.1	64.4	54.2
July 1993 .. . . .	W	55.6	52.7	83.9	67.1	54.2	83.9	64.9	53.6
August 1992 .. . . .	W	63.2	60.2	89.6	72.6	61.5	89.6	70.7	61.0
<b>New Hampshire</b>									
August 1993 .. . . .	-	56.9	53.8	76.6	68.2	55.0	76.6	67.1	54.8
July 1993 .. . . .	-	52.7	52.6	78.0	69.0	54.1	78.0	67.6	53.8
August 1992 .. . . .	-	61.4	60.9	81.8	72.1	62.0	81.8	71.4	61.7
<b>Rhode Island</b>									
August 1993 .. . . .	W	53.4	52.8	82.8	69.5	53.0	82.7	66.2	52.9
July 1993 .. . . .	W	52.5	51.9	85.2	69.3	53.9	85.2	66.2	53.0
August 1992 .. . . .	W	61.3	60.8	89.4	74.2	60.0	89.4	71.6	60.2
<b>Vermont</b>									
August 1993 .. . . .	-	57.2	W	85.6	68.8	59.6	85.6	68.1	58.1
July 1993 .. . . .	-	W	W	85.5	70.3	59.5	85.5	69.4	57.9
August 1992 .. . . .	-	64.7	62.0	89.4	75.7	69.0	89.4	74.8	65.0
<b>Subdistrict IB Average</b>									
August 1993 .. . . .	75.5	56.6	52.0	86.2	65.0	54.9	85.8	62.7	53.0
July 1993 .. . . .	75.8	56.2	51.4	87.8	65.5	54.4	87.4	62.7	52.5
August 1992 .. . . .	80.3	63.9	60.0	90.1	71.1	61.5	89.8	68.8	60.5
<b>Delaware</b>									
August 1993 .. . . .	-	55.0	52.3	86.0	64.0	NA	86.0	62.5	53.4
July 1993 .. . . .	-	54.7	50.6	90.2	64.5	56.3	90.2	62.8	51.5
August 1992 .. . . .	-	61.7	W	89.5	70.3	63.3	89.5	67.5	59.4
<b>District of Columbia</b>									
August 1993 .. . . .	-	NA	52.9	96.3	58.3	W	96.3	58.1	53.0
July 1993 .. . . .	-	53.0	53.7	100.2	58.5	W	100.2	58.3	54.1
August 1992 .. . . .	-	W	64.3	101.9	68.5	W	101.9	67.6	60.4
<b>Maryland</b>									
August 1993 .. . . .	W	52.5	53.1	91.8	64.1	55.5	91.7	60.8	54.1
July 1993 .. . . .	W	53.2	52.5	92.5	64.2	54.2	92.3	61.2	53.3
August 1992 .. . . .	W	61.5	61.8	95.2	70.6	62.9	95.2	67.7	62.3
<b>New Jersey</b>									
August 1993 .. . . .	-	56.2	51.3	85.8	62.8	53.9	85.8	60.8	52.1
July 1993 .. . . .	-	55.8	50.7	87.9	62.9	53.6	87.9	60.5	51.6
August 1992 .. . . .	-	63.6	59.3	88.1	68.2	59.8	88.1	66.7	59.5
<b>New York</b>									
August 1993 .. . . .	W	58.3	52.5	93.7	67.5	54.5	93.5	65.3	53.3
July 1993 .. . . .	W	57.5	52.4	95.2	68.8	54.8	95.2	65.8	53.5
August 1992 .. . . .	W	65.7	60.5	99.3	74.2	63.8	99.0	71.4	61.5

See footnotes at end of table.

**Table 37. No. 2 Distillate Prices by Seller, PAD District,  
and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Refiners			Resellers and Retailers			All Sellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users	
<b>Pennsylvania</b>									
August 1993	73.2	57.2	52.1	77.3	64.7	55.8	77.0	62.6	53.5
July 1993	74.5	56.5	51.6	79.2	64.9	55.0	78.8	62.0	52.8
August 1992	79.2	63.8	60.4	81.9	71.0	61.9	81.7	68.8	61.0
<b>Subdistrict IC Average<sup>b</sup></b>									
August 1993	W	55.5	52.6	86.5	65.7	55.8	86.4	62.0	53.5
July 1993	W	55.7	51.2	86.1	65.7	54.4	86.1	62.2	52.2
August 1992	W	63.0	60.3	92.3	70.8	62.8	92.2	67.8	61.0
<b>Virginia</b>									
August 1993	W	55.2	52.4	84.3	67.2	55.4	84.3	64.5	53.0
July 1993	W	55.2	51.3	84.7	66.3	54.8	84.7	63.6	52.2
August 1992	W	62.2	60.3	88.4	71.2	61.0	88.4	68.3	60.6
<b>West Virginia</b>									
August 1993	W	57.4	52.7	79.2	63.8	58.7	78.7	60.9	54.0
July 1993	W	57.8	52.6	81.7	63.0	59.4	81.2	60.6	54.1
August 1992	W	66.8	61.6	81.6	72.0	67.9	81.4	69.7	62.3
<b>PAD District II Average<sup>b</sup></b>									
August 1993	W	53.3	50.8	79.4	65.1	54.3	79.3	61.6	51.7
July 1993	W	54.7	51.5	81.5	65.7	55.0	81.5	62.3	52.4
August 1992	W	62.6	61.4	82.6	72.6	63.8	82.6	69.3	62.0
<b>Illinois</b>									
August 1993	-	50.5	47.6	77.2	64.1	53.1	77.2	60.5	49.2
July 1993	-	52.9	49.3	79.4	66.4	53.8	79.4	62.9	50.8
August 1992	-	60.9	59.4	86.4	74.1	62.4	86.4	70.6	60.3
<b>Indiana</b>									
August 1993	W	51.6	48.2	76.5	62.9	50.0	76.5	59.1	48.6
July 1993	W	53.5	50.0	79.1	63.7	53.0	79.0	60.4	50.8
August 1992	W	61.5	60.1	83.1	71.9	63.6	83.1	67.2	61.2
<b>Michigan</b>									
August 1993	-	51.2	48.2	83.0	67.4	54.5	83.0	61.9	49.9
July 1993	-	54.0	51.0	83.4	69.1	55.5	83.4	63.9	52.2
August 1992	-	62.3	61.0	85.7	75.9	65.9	85.7	70.9	62.5
<b>Minnesota</b>									
August 1993	-	52.5	52.5	79.4	70.5	58.3	79.4	66.6	54.1
July 1993	-	53.1	53.0	82.0	71.4	58.0	82.0	66.4	54.3
August 1992	-	64.5	64.0	84.1	77.0	67.1	84.1	73.8	64.6
<b>Ohio</b>									
August 1993	W	55.9	50.8	79.0	64.4	52.8	78.7	59.6	51.2
July 1993	W	57.9	52.7	79.4	67.3	54.3	79.3	62.1	53.1
August 1992	W	64.1	61.9	82.4	71.7	62.6	82.3	67.7	62.1
<b>Wisconsin</b>									
August 1993	-	50.6	48.7	79.1	67.7	52.7	79.1	65.1	50.1
July 1993	-	52.9	50.6	84.1	69.2	54.5	84.1	66.5	51.8
August 1992	-	62.7	61.9	80.6	73.3	62.7	80.6	71.7	62.1
<b>PAD District III Average</b>									
August 1993	-	56.0	50.6	70.9	63.4	53.5	70.9	61.4	51.2
July 1993	-	55.8	50.0	71.6	62.4	52.6	71.6	60.6	50.6
August 1992	-	62.1	58.8	W	68.0	60.4	W	66.4	59.1
<b>PAD District IV Average<sup>b</sup></b>									
August 1993	-	58.7	57.7	76.6	70.1	61.7	76.6	67.2	58.4
July 1993	-	59.5	58.1	79.2	70.2	61.8	79.2	67.5	58.8
August 1992	-	68.4	65.2	84.9	77.2	68.5	84.9	73.9	65.8
<b>Idaho</b>									
August 1993	-	W	60.5	76.3	73.6	64.7	76.3	71.6	61.1
July 1993	-	W	63.5	80.0	75.8	65.2	80.0	73.8	63.8
August 1992	-	W	65.5	79.4	77.7	70.6	79.4	75.7	66.6

See footnotes at end of table

**Table 37. No. 2 Distillate Prices by Seller, PAD District,  
and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Refiners			Resellers and Retailers			All Sellers		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users		To Residential Consumers <sup>a</sup>	To Non- Residential End Users	
PAD District V Average <sup>b</sup>									
August 1993 ..	84.8	61.5	56.1	91.9	72.0	61.1	90.9	69.2	57.0
July 1993 . . .	83.7	62.8	57.1	93.5	72.9	60.8	91.9	70.2	57.7
August 1992 ..	85.9	64.3	59.5	89.5	73.9	66.4	88.9	70.9	60.8
Alaska									
August 1993 .. ....	W	77.4	58.1	97.7	86.7	72.4	95.2	84.8	60.4
July 1993 ....	W	72.9	59.0	99.5	91.1	80.3	95.3	87.6	62.0
August 1992 ... ..	W	83.0	67.8	101.7	87.8	75.7	96.8	86.8	70.1
Oregon									
August 1993 ....	W	57.8	56.4	83.0	73.1	69.5	83.5	69.2	57.3
July 1993 ... ..	W	58.3	56.4	85.5	73.7	68.8	86.1	70.0	57.3
August 1992 .....	W	59.3	58.6	83.7	74.5	66.3	84.0	69.9	59.5
Washington									
August 1993 ... .	W	59.2	54.8	90.4	70.5	61.5	89.3	69.2	55.3
July 1993 . . . .	W	59.2	55.5	92.9	70.8	62.7	91.3	68.7	56.0
August 1992 ....	W	59.2	57.9	85.0	72.1	64.6	84.0	67.7	58.9

<sup>a</sup> No. 2 fuel oil only

<sup>b</sup> Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Refiners and Gas Plant Operators' Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report;" Resellers' Energy Information Administration Form EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 38. No. 2 Distillate Prices by Sales Type, PAD District, and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>a</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>b</sup>	To Other End Users <sup>c</sup>	Average	
<b>U.S. Average</b>							
August 1993	84.0	57.9	63.4	67.5	66.9	64.6	53.0
July 1993 ..	85.6	58.0	63.6	68.7	67.0	64.7	53.0
August 1992 ..	88.6	64.4	68.8	73.8	73.1	70.5	60.9
<b>PAD District I Average</b>							
August 1993 ..	84.5	59.6	63.4	68.6	62.5	66.4	53.4
July 1993 ..	85.9	59.2	62.7	69.9	63.0	66.3	52.6
August 1992 ..	89.8	66.4	68.4	73.5	69.1	72.7	60.8
<b>Subdistrict 1A Average</b>							
August 1993 ..	82.1	63.6	65.1	75.7	63.1	72.5	54.1
July 1993 ..	83.7	63.9	65.4	76.2	63.6	73.0	53.7
August 1992 ..	88.6	70.4	69.0	83.7	74.0	78.8	61.1
<b>Connecticut</b>							
August 1993 ..	83.9	62.6	64.2	79.5	64.2	75.0	53.8
July 1993 ..	86.5	62.7	63.6	80.5	66.0	76.0	53.6
August 1992 ..	90.5	70.4	66.9	88.1	72.6	81.7	60.4
<b>Maine</b>							
August 1993 ..	77.4	64.0	63.4	75.9	63.7	70.0	54.6
July 1993 ..	78.2	63.0	63.5	76.3	68.4	70.2	53.6
August 1992 ..	87.8	72.1	70.6	79.1	75.6	77.6	62.4
<b>Massachusetts</b>							
August 1993 ..	83.1	62.6	69.5	77.0	61.9	71.7	54.2
July 1993 ..	83.9	63.3	71.1	77.2	59.4	72.2	53.6
August 1992 ..	89.6	69.9	68.3	83.1	68.1	77.4	61.0
<b>New Hampshire</b>							
August 1993 ..	76.6	62.8	57.6	72.4	73.6	71.2	54.8
July 1993 ..	78.0	63.6	56.4	73.0	77.2	71.5	53.8
August 1992 ..	81.8	68.3	65.6	78.4	84.6	76.1	61.7
<b>Rhode Island</b>							
August 1993 ..	82.7	67.9	64.5	75.1	58.2	74.4	52.9
July 1993 ..	85.2	68.2	64.0	74.9	56.8	74.7	53.0
August 1992 ..	89.4	72.0	70.8	77.0	65.1	80.9	60.2
<b>Vermont</b>							
August 1993 ..	85.6	67.1	63.7	76.7	71.3	73.8	58.1
July 1993 ..	85.5	68.0	64.1	77.8	74.0	73.9	57.9
August 1992 ..	89.4	70.8	74.0	83.8	82.4	80.2	65.0
<b>Subdistrict 1B Average</b>							
August 1993 ..	85.8	59.9	64.3	70.3	61.2	68.0	53.0
July 1993 ..	87.4	59.7	63.5	71.2	61.8	67.6	52.5
August 1992 ..	89.8	67.1	68.7	75.7	67.6	75.0	60.5
<b>Delaware</b>							
August 1993 ..	86.0	56.6	64.2	67.5	63.8	64.8	53.4
July 1993 ..	90.2	56.0	64.6	68.7	64.8	65.0	51.5
August 1992 ..	89.5	64.9	68.4	71.1	65.5	71.8	59.4
<b>District of Columbia</b>							
August 1993 ..	96.3	57.1	W	W	63.8	59.6	53.0
July 1993 ..	100.2	57.2	W	W	NA	59.3	54.1
August 1992 ..	101.9	67.2	W	W	67.0	70.5	60.4
<b>Maryland</b>							
August 1993 ..	91.7	56.9	61.5	72.3	62.3	63.9	54.1
July 1993 ..	92.3	56.9	59.0	73.3	64.8	63.7	53.3
August 1992 ..	95.2	64.7	67.9	77.5	68.9	71.2	62.3
<b>New Jersey</b>							
August 1993 ..	85.8	57.9	69.7	68.8	59.0	65.0	52.1
July 1993 ..	87.9	57.4	67.2	70.1	58.6	64.8	51.6
August 1992 ..	88.1	65.8	63.8	73.9	64.8	71.9	59.5
<b>New York</b>							
August 1993 ..	93.5	65.7	62.3	76.8	59.4	74.1	53.3
July 1993 ..	95.2	66.0	62.5	78.1	60.3	73.6	53.5
August 1992 ..	99.0	70.8	73.5	78.4	67.7	82.3	61.5

See footnotes at end of table

**Table 38. No. 2 Distillate Prices by Sales Type, PAD District, and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>a</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>b</sup>	To Other End Users <sup>c</sup>	Average	
<b>Pennsylvania</b>							
August 1993 .	77.0	58.1	65.1	68.2	63.2	66.1	53.5
July 1993 .	78.8	57.3	64.5	68.8	62.5	65.5	52.8
August 1992 ..	81.7	66.7	68.3	75.0	68.5	72.5	61.0
<b>Subdistrict IC Average<sup>d</sup></b>							
August 1993	86.4	58.1	62.5	66.9	63.3	63.0	53.5
July 1993 .	86.1	57.3	61.7	68.5	63.7	63.1	52.2
August 1992	92.2	64.7	68.1	71.3	69.5	69.1	61.0
<b>Virginia</b>							
August 1993	84.3	62.1	60.2	69.2	67.4	66.4	53.0
July 1993 ..	84.7	59.2	60.3	70.3	65.7	65.8	52.2
August 1992 . ..	88.4	63.7	70.0	72.6	72.2	69.8	60.6
<b>West Virginia</b>							
August 1993 ..	78.7	56.0	62.3	68.4	63.1	61.6	54.0
July 1993 .. .	81.2	56.0	61.8	69.9	61.9	61.2	54.1
August 1992 .. .	81.4	65.4	71.3	79.8	71.5	70.1	62.3
<b>PAD District II Average<sup>d</sup></b>							
August 1993 ..	79.3	54.5	61.6	64.1	69.1	62.1	51.7
July 1993 .....	81.5	55.3	63.2	65.6	69.4	62.7	52.4
August 1992 ...	82.6	63.6	69.9	71.8	76.1	69.8	62.0
<b>Illinois</b>							
August 1993 .	77.2	52.4	66.0	64.5	67.2	60.8	49.2
July 1993 .....	79.4	54.2	69.8	67.3	68.9	63.1	50.8
August 1992 ...	86.4	65.2	75.5	72.0	74.4	70.7	60.3
<b>Indiana</b>							
August 1993 .....	76.5	53.0	57.8	60.1	74.7	59.5	48.6
July 1993 ...	79.0	54.2	59.8	61.5	NA	60.7	50.8
August 1992 . . .	83.1	62.3	67.9	69.1	82.7	67.8	61.2
<b>Michigan</b>							
August 1993 ..	83.0	56.5	65.1	68.5	65.1	63.5	49.9
July 1993 ... ..	83.4	57.8	65.9	69.4	69.7	64.9	52.2
August 1992 ..	85.7	65.1	71.2	73.8	77.5	72.5	62.5
<b>Minnesota</b>							
August 1993 ..	79.4	57.6	62.3	70.5	72.1	67.4	54.1
July 1993 .....	82.0	58.6	62.8	69.3	74.1	67.2	54.3
August 1992 ....	84.1	68.0	72.0	74.4	80.7	74.6	64.6
<b>Ohio</b>							
August 1993 .....	78.7	54.9	57.7	63.7	67.8	60.5	51.2
July 1993 .. ..	79.3	58.4	59.8	67.3	65.8	62.7	53.1
August 1992 ...	82.3	63.3	69.1	71.0	75.1	68.4	62.1
<b>Wisconsin</b>							
August 1993 ... ..	79.1	58.4	65.9	67.1	71.1	66.3	50.1
July 1993 ... ..	84.1	59.9	66.8	69.6	72.7	67.6	51.8
August 1992 .. .	80.6	65.1	67.7	73.8	80.4	72.8	62.1
<b>PAD District III Average</b>							
August 1993 ....	70.9	55.9	59.6	66.9	63.9	61.4	51.2
July 1993 .. . .	71.6	54.9	58.1	67.5	63.4	60.6	50.6
August 1992 ...	W	60.6	65.7	73.2	73.2	66.4	59.1
<b>PAD District IV Average<sup>d</sup></b>							
August 1993 .....	76.6	59.8	65.1	72.5	72.3	67.3	58.4
July 1993 .....	79.2	60.6	64.2	72.9	73.4	67.5	58.8
August 1992 ... .	84.9	67.1	71.6	81.0	78.4	74.0	65.8
<b>Idaho</b>							
August 1993 ... ..	76.3	62.5	71.1	73.1	74.3	71.7	61.1
July 1993 .....	80.0	64.2	74.4	74.9	76.9	73.9	63.8
August 1992 ... ..	79.4	68.7	73.0	78.2	79.1	75.7	66.6

See footnotes at end of table

**Table 38. No. 2 Distillate Prices by Sales Type, PAD District,  
and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>a</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>b</sup>	To Other End Users <sup>c</sup>	Average	
<b>PAD District V Average<sup>d</sup></b>							
August 1993 . . . . .	90.9	64.1	70.7	75.5	69.8	69.7	57.0
July 1993 . . . . .	91.9	65.3	71.5	77.6	70.3	70.6	57.7
August 1992 . . . . .	88.9	66.1	71.4	79.5	71.3	71.2	60.8
<b>Alaska</b>							
August 1993 . . . . .	95.2	86.1	80.9	83.4	87.9	87.0	60.4
July 1993 . . . . .	95.3	88.4	84.8	87.1	89.9	88.8	62.0
August 1992 . . . . .	96.8	86.2	78.7	92.1	88.9	87.9	70.1
<b>Oregon</b>							
August 1993 . . . . .	83.5	62.8	69.6	73.9	73.3	69.7	57.3
July 1993 . . . . .	86.1	63.1	69.1	75.9	73.6	70.4	57.3
August 1992 . . . . .	84.0	64.7	72.0	78.9	74.4	70.2	59.5
<b>Washington</b>							
August 1993 . . . . .	89.3	64.1	71.1	77.6	70.2	69.8	55.3
July 1993 . . . . .	91.3	62.9	70.8	79.6	70.7	69.3	56.0
August 1992 . . . . .	84.0	63.5	68.8	77.2	73.4	68.5	58.9

<sup>a</sup> No. 2 fuel oil only.

<sup>b</sup> No. 2 diesel fuel only.

<sup>c</sup> Sales to "other end users" are all end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

<sup>d</sup> Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."



**Table 39. No. 2 Fuel Oil Prices by Sales Type, PAD District,  
and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	To Residential Consumers	To Commercial/ Institutional Consumers	To Industrial Consumers	To Other End Users*	Average	
<b>U.S. Average</b>						
August 1993 .. ..	84.0	59.3	59.4	59.3	71.7	51.3
July 1993 ... .	85.6	60.2	59.9	59.4	71.4	51.4
August 1992 . . .	88.6	66.1	67.0	67.0	77.9	60.2
<b>PAD District   Average</b>						
August 1993 .. ..	84.5	61.6	60.1	57.9	73.8	52.5
July 1993 . . . .	85.9	62.3	59.1	57.2	73.7	52.0
August 1992 . . . .	89.8	68.4	66.5	65.2	80.2	60.3
<b>Subdistrict IA Average</b>						
August 1993 .....	82.1	64.8	61.5	61.8	76.6	53.4
July 1993 .....	83.7	66.1	61.7	59.4	77.9	53.0
August 1992 .....	88.6	71.1	68.6	70.4	82.7	60.7
<b>Connecticut</b>						
August 1993 .....	83.9	68.0	60.6	56.8	80.7	53.2
July 1993 .....	86.5	67.0	60.9	58.7	82.0	53.1
August 1992 .....	90.5	73.5	66.6	66.4	86.4	60.1
<b>Maine</b>						
August 1993 .....	77.4	65.9	62.3	W	71.6	53.6
July 1993 .....	78.2	65.4	62.7	W	71.8	52.8
August 1992 .....	87.8	74.1	70.9	74.0	80.4	62.0
<b>Massachusetts</b>						
August 1993 .....	83.1	62.4	60.6	62.2	75.6	53.7
July 1993 .....	83.9	65.5	61.0	58.1	77.0	53.1
August 1992 .....	89.6	69.9	68.0	68.0	82.0	60.6
<b>New Hampshire</b>						
August 1993 .....	76.6	62.2	57.1	W	73.2	53.6
July 1993 .....	78.0	63.4	57.0	W	74.5	52.5
August 1992 .....	81.8	65.5	64.7	W	76.9	61.3
<b>Rhode Island</b>						
August 1993 .....	82.7	69.9	67.2	W	79.2	52.4
July 1993 .....	85.2	70.2	67.4	W	81.4	52.8
August 1992 .....	89.4	76.7	69.2	W	86.0	59.9
<b>Vermont</b>						
August 1993 .....	85.6	71.5	61.8	W	82.1	55.8
July 1993 .....	85.5	71.9	59.6	W	81.2	55.5
August 1992 .....	89.4	75.1	68.8	80.2	86.3	62.9
<b>Subdistrict IB Average</b>						
August 1993 .....	85.8	64.2	58.2	56.9	76.8	52.3
July 1993 .....	87.4	67.2	57.7	56.3	77.3	52.0
August 1992 .....	89.8	69.8	65.9	63.7	81.6	60.1
<b>Delaware</b>						
August 1993 .....	86.0	64.9	W	53.7	71.4	54.0
July 1993 .....	90.2	64.7	W	53.9	70.6	51.1
August 1992 .....	89.5	72.3	70.5	W	78.2	56.7
<b>District of Columbia</b>						
August 1993 .....	96.3	60.2	-	W	63.6	52.5
July 1993 .....	100.2	60.4	W	W	63.1	53.5
August 1992 .....	101.9	66.5	-	W	72.2	59.4
<b>Maryland</b>						
August 1993 .....	91.7	60.0	61.6	54.8	70.9	52.2
July 1993 .....	92.3	61.2	62.0	55.0	69.6	52.1
August 1992 .....	95.2	66.6	65.3	64.1	77.7	60.5
<b>New Jersey</b>						
August 1993 .....	85.8	63.0	55.5	NA	74.2	51.5
July 1993 .....	87.9	62.9	55.1	NA	73.9	51.5
August 1992 .....	88.1	63.9	62.2	W	77.1	59.3
<b>New York</b>						
August 1993 .....	93.5	68.3	57.8	59.4	83.7	52.8
July 1993 .....	95.2	71.3	56.4	60.4	84.2	53.0
August 1992 .....	99.0	74.0	66.2	64.7	90.1	61.0

See footnotes at end of table.

**Table 39. No. 2 Fuel Oil Prices by Sales Type, PAD District,  
and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	To Residential Consumers	To Commercial/ Institutional Consumers	To Industrial Consumers	To Other End Users <sup>a</sup>	Average	
<b>Pennsylvania</b>						
August 1993 . . . . .	77.0	60.0	61.3	56.1	71.8	52.8
July 1993 . . . . .	78.8	64.3	62.3	55.5	73.3	52.1
August 1992 . . . . .	81.7	69.3	66.7	65.2	77.0	60.5
<b>Subdistrict IC Average<sup>b</sup></b>						
August 1993 . . . . .	86.4	57.5	61.5	57.4	64.9	52.6
July 1993 . . . . .	86.1	57.4	59.8	57.6	63.9	51.4
August 1992 . . . . .	92.2	63.9	66.4	65.8	74.1	60.3
<b>Virginia</b>						
August 1993 . . . . .	84.3	56.1	65.8	57.7	71.0	52.2
July 1993 . . . . .	84.7	58.1	65.1	58.1	70.3	51.5
August 1992 . . . . .	88.4	63.1	71.2	64.1	71.8	60.0
<b>West Virginia</b>						
August 1993 . . . . .	78.7	60.5	58.0	60.2	67.3	51.3
July 1993 . . . . .	81.2	61.1	59.3	57.9	64.7	51.3
August 1992 . . . . .	81.4	70.3	67.6	63.4	71.9	61.0
<b>PAD District II Average<sup>b</sup></b>						
August 1993 . . . . .	79.3	53.1	56.8	61.4	63.7	50.1
July 1993 . . . . .	81.5	55.7	57.6	62.5	63.5	51.1
August 1992 . . . . .	82.6	61.5	67.9	69.6	70.6	61.0
<b>Illinois</b>						
August 1993 . . . . .	77.2	51.5	53.7	63.4	59.8	48.0
July 1993 . . . . .	79.4	55.3	57.2	NA	65.7	49.7
August 1992 . . . . .	86.4	60.7	74.6	68.3	67.3	59.5
<b>Indiana</b>						
August 1993 . . . . .	76.5	W	56.3	72.5	59.4	47.4
July 1993 . . . . .	79.0	W	59.2	71.8	61.4	50.0
August 1992 . . . . .	83.1	61.8	68.2	80.0	71.2	59.9
<b>Michigan</b>						
August 1993 . . . . .	83.0	50.6	63.1	63.1	68.9	48.9
July 1993 . . . . .	83.4	52.7	60.8	64.8	65.9	51.3
August 1992 . . . . .	85.7	60.8	70.4	69.3	74.8	61.1
<b>Minnesota</b>						
August 1993 . . . . .	79.4	64.6	56.6	69.6	68.9	52.2
July 1993 . . . . .	82.0	63.2	57.1	70.7	67.7	52.7
August 1992 . . . . .	84.1	65.7	67.8	79.2	78.7	63.5
<b>Ohio</b>						
August 1993 . . . . .	78.7	54.0	55.9	59.2	63.6	49.8
July 1993 . . . . .	79.3	60.9	56.5	54.8	62.3	51.5
August 1992 . . . . .	82.3	61.8	65.5	65.7	68.3	61.1
<b>Wisconsin</b>						
August 1993 . . . . .	79.1	57.7	56.2	NA	72.1	49.0
July 1993 . . . . .	84.1	57.3	56.7	72.5	73.8	50.5
August 1992 . . . . .	80.6	63.8	68.2	74.5	75.1	61.4
<b>PAD District III Average</b>						
August 1993 . . . . .	70.9	51.2	54.1	50.6	52.3	49.5
July 1993 . . . . .	71.6	50.8	51.8	W	51.6	48.9
August 1992 . . . . .	W	W	61.0	69.0	60.1	57.6
<b>PAD District IV Average<sup>b</sup></b>						
August 1993 . . . . .	76.6	56.6	W	77.2	66.0	56.6
July 1993 . . . . .	79.2	57.3	W	W	63.5	57.2
August 1992 . . . . .	84.9	68.5	W	W	72.7	64.5
<b>Idaho</b>						
August 1993 . . . . .	76.3	64.5	-	W	74.3	59.5
July 1993 . . . . .	80.0	68.6	-	W	77.2	63.0
August 1992 . . . . .	79.4	W	W	W	75.6	64.8

See footnotes at end of table

**Table 39. No. 2 Fuel Oil Prices by Sales Type, PAD District, and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	To Residential Consumers	To Commercial/ Institutional Consumers	To Industrial Consumers	To Other End Users <sup>a</sup>	Average	
PAD District V Average <sup>b</sup>						
August 1993 . . . . .	90.9	75.3	NA	68.9	81.7	56.7
July 1993 . . . . .	91.9	74.6	83.7	72.7	83.2	57.7
August 1992 . . . . .	88.9	78.5	72.7	84.6	84.1	62.2
Alaska						
August 1993 . . . . .	95.2	NA	NA	88.7	90.3	56.8
July 1993 . . . . .	95.3	77.2	98.8	90.4	91.6	58.2
August 1992 . . . . .	96.8	81.1	82.6	101.2	90.7	70.4
Oregon						
August 1993 . . . . .	83.5	73.9	W	W	79.5	57.2
July 1993 . . . . .	86.1	73.0	W	W	80.6	56.9
August 1992 . . . . .	84.0	76.5	W	77.2	80.4	59.9
Washington						
August 1993 . . . . .	89.3	67.5	63.4	62.8	72.9	56.0
July 1993 . . . . .	91.3	69.5	66.5	65.1	75.3	57.4
August 1992 . . . . .	84.0	74.0	68.2	W	78.7	58.2

<sup>a</sup> Sales to "other end users" are all end-user sales not included in the other end-user categories shown, e.g., sales to agricultural customers or utilities.

<sup>b</sup> Some State data are not sufficient for publication individually, but are used in calculating the PAD District average.

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 40. Refiner No. 4 and Residual Fuel Oil Prices by PAD District**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	No. 4 Fuel		Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average Residual	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>								
August 1993 . . . . .	46.3	46.7	37.2	32.1	28.4	24.0	31.7	27.3
July 1993 . . . . .	45.4	45.4	41.9	32.7	28.5	24.6	33.2	27.4
August 1992 . . . . .	55.3	49.1	42.1	37.7	37.0	33.2	38.8	34.7
<b>PAD District I Average</b>								
August 1993 . . . . .	46.8	48.0	35.4	36.3	30.4	29.9	33.0	35.1
July 1993 . . . . .	W	48.2	39.3	36.2	30.6	31.8	35.0	35.5
August 1992 . . . . .	54.6	53.1	40.9	40.1	38.2	38.1	39.6	39.0
<b>Subdistrict IA Average</b>								
August 1993 . . . . .	W	W	33.6	W	W	-	31.9	W
July 1993 . . . . .	49.4	W	39.3	W	W	W	35.8	W
August 1992 . . . . .	53.1	W	39.2	W	34.3	W	36.1	40.9
<b>Subdistrict IB Average</b>								
August 1993 . . . . .	W	48.9	36.7	36.8	27.8	31.6	33.8	36.4
July 1993 . . . . .	W	49.1	40.1	36.1	29.9	32.0	36.6	35.8
August 1992 . . . . .	55.9	53.6	42.2	40.3	39.7	36.1	41.6	38.6
<b>Subdistrict IC Average</b>								
August 1993 . . . . .	47.6	W	W	W	32.1	29.0	32.8	29.0
July 1993 . . . . .	51.3	W	W	W	31.4	31.6	32.3	31.7
August 1992 . . . . .	50.8	W	39.6	W	38.7	W	39.1	36.3
<b>PAD District II Average</b>								
August 1993 . . . . .	W	W	W	W	27.8	22.5	29.6	22.7
July 1993 . . . . .	W	W	W	W	30.7	24.1	32.6	24.7
August 1992 . . . . .	W	W	36.6	33.0	W	28.7	33.0	29.5
<b>PAD District III Average</b>								
August 1993 . . . . .	W	-	-	28.5	26.0	23.2	26.0	24.8
July 1993 . . . . .	W	-	-	29.5	23.9	23.4	23.9	24.9
August 1992 . . . . .	W	W	-	37.1	34.8	31.0	34.8	33.5
<b>PAD District IV Average</b>								
August 1993 . . . . .	-	-	-	30.6	W	W	W	25.9
July 1993 . . . . .	-	-	-	34.3	W	W	W	28.3
August 1992 . . . . .	-	-	W	29.7	W	W	W	22.4
<b>PAD District V Average</b>								
August 1993 . . . . .	W	42.2	W	27.6	27.3	25.1	31.7	25.9
July 1993 . . . . .	-	41.7	W	W	29.4	26.6	35.5	26.5
August 1992 . . . . .	W	W	47.3	W	38.6	33.7	41.2	33.6

Dashes (-) = No data reported.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 41. Residual Fuel Oil Prices by PAD District and Selected States**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>						
August 1993 ... ..	36.7	32.5	30.0	27.0	32.4	28.9
July 1993 ... ..	39.5	33.0	29.9	25.5	33.1	27.8
August 1992 ... ..	42.3	37.9	37.3	34.3	39.2	35.2
<b>PAD District I Average</b>						
August 1993 ... ..	36.3	35.8	31.5	28.8	33.5	32.2
July 1993 ... ..	38.9	36.3	31.3	28.5	34.3	33.0
August 1992 ... ..	42.2	40.9	38.1	38.0	40.1	38.9
<b>Subdistrict IA Average<sup>a</sup></b>						
August 1993 ... ..	35.2	35.0	30.2	W	32.7	31.4
July 1993 ... ..	38.6	38.2	29.9	W	33.8	31.2
August 1992 ... ..	41.2	38.8	35.0	W	37.6	40.9
<b>Connecticut</b>						
August 1993 ... ..	34.0	W	W	-	34.1	W
July 1993 ... ..	39.4	NA	W	-	39.4	NA
August 1992 ... ..	39.2	W	W	-	39.3	W
<b>Maine</b>						
August 1993 ... ..	39.2	W	31.6	W	33.1	42.7
July 1993 ... ..	39.5	W	31.3	W	32.8	W
August 1992 ... ..	43.0	W	36.9	W	38.0	W
<b>Massachusetts</b>						
August 1993 ... ..	34.9	33.5	30.2	W	32.5	30.3
July 1993 ... ..	37.4	37.7	29.5	W	32.4	29.9
August 1992 ... ..	41.8	W	33.0	W	37.2	W
<b>New Hampshire</b>						
August 1993 ... ..	NA	-	28.1	-	30.0	-
July 1993 ... ..	38.5	-	28.4	-	29.1	-
August 1992 ... ..	43.8	-	37.7	-	39.6	-
<b>Rhode Island</b>						
August 1993 ... ..	38.2	W	-	-	38.2	W
July 1993 ... ..	39.6	W	-	-	39.6	W
August 1992 ... ..	43.6	W	W	-	W	W
<b>Subdistrict IB Average<sup>a</sup></b>						
August 1993 ... ..	37.9	35.9	31.6	NA	35.2	33.0
July 1993 ... ..	40.5	36.2	32.8	27.3	37.8	33.2
August 1992 ... ..	43.9	41.2	39.6	37.0	42.4	39.2
<b>Delaware</b>						
August 1993 ... ..	33.9	W	NA	NA	28.5	W
July 1993 ... ..	36.7	W	28.9	W	36.0	W
August 1992 ... ..	W	W	35.3	-	39.7	W
<b>Maryland</b>						
August 1993 ... ..	32.9	32.7	33.0	W	32.9	30.5
July 1993 ... ..	W	W	34.8	W	36.8	W
August 1992 ... ..	42.2	W	41.0	W	41.5	W
<b>New Jersey</b>						
August 1993 ... ..	37.2	38.2	29.2	33.2	34.9	37.9
July 1993 ... ..	38.3	36.8	28.3	W	35.7	36.0
August 1992 ... ..	43.4	43.4	41.2	36.8	42.8	37.6
<b>New York</b>						
August 1993 ... ..	42.2	38.0	34.4	NA	38.1	NA
July 1993 ... ..	44.9	37.8	34.4	35.5	40.5	37.6
August 1992 ... ..	44.7	45.0	39.6	37.9	42.9	42.2
<b>Pennsylvania</b>						
August 1993 ... ..	34.3	35.9	31.1	W	33.2	35.3
July 1993 ... ..	36.7	W	31.7	31.7	34.3	35.3
August 1992 ... ..	40.2	36.7	40.1	35.3	40.2	36.4
<b>Subdistrict IC Average<sup>a</sup></b>						
August 1993 ... ..	34.5	W	31.9	27.4	32.6	28.7
July 1993 ... ..	35.6	W	31.2	33.1	32.1	33.2
August 1992 ... ..	39.9	W	38.6	37.6	39.1	37.6
<b>Florida</b>						
August 1993 ... ..	34.4	W	31.9	NA	32.5	36.0
July 1993 ... ..	35.3	-	30.5	W	31.8	W
August 1992 ... ..	39.4	W	38.7	39.0	38.9	39.0
<b>Georgia</b>						
August 1993 ... ..	-	W	34.1	W	34.1	W
July 1993 ... ..	-	-	34.4	-	34.4	-
August 1992 ... ..	-	-	37.6	W	37.6	W

See footnotes at end of table

**Table 41. Residual Fuel Oil Prices by PAD District and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>North Carolina</b>						
August 1993	W	-	32.0	35.6	32.9	35.6
July 1993	W	-	32.2	32.0	32.8	32.0
August 1992	W	-	38.4	W	38.8	W
<b>South Carolina</b>						
August 1993	W	-	W	W	W	W
July 1993	W	-	W	-	W	-
August 1992	W	-	W	-	W	-
<b>Virginia</b>						
August 1993	33.7	W	30.7	29.0	32.3	29.1
July 1993	38.8	W	32.5	31.6	32.6	31.7
August 1992	41.9	W	38.8	36.1	40.4	36.3
<b>PAD District II Average<sup>a</sup></b>						
August 1993	41.4	36.1	30.8	23.0	34.4	24.6
July 1993	43.5	32.4	32.7	24.6	35.3	25.9
August 1992	39.4	31.6	32.8	28.1	35.1	28.9
<b>Illinois</b>						
August 1993	W	W	W	W	39.2	16.9
July 1993	W	W	W	W	40.7	23.5
August 1992	W	W	W	24.8	W	28.3
<b>Indiana</b>						
August 1993	40.0	-	27.7	W	28.2	W
July 1993	38.7	W	28.9	W	29.3	W
August 1992	39.8	W	35.4	W	35.9	27.2
<b>Michigan</b>						
August 1993	42.2	W	33.6	-	41.2	W
July 1993	44.6	45.9	37.1	W	42.9	45.4
August 1992	42.6	W	35.9	W	41.4	30.6
<b>Minnesota</b>						
August 1993	W	-	26.7	W	26.7	W
July 1993	-	-	30.0	W	30.0	W
August 1992	W	W	26.3	W	26.4	W
<b>Ohio</b>						
August 1993	W	W	35.3	W	35.6	23.6
July 1993	W	W	33.3	W	34.0	26.7
August 1992	W	W	30.8	W	32.8	28.7
<b>PAD District III Average<sup>a</sup></b>						
August 1993	W	29.5	26.6	26.7	26.4	27.4
July 1993	W	29.7	24.8	24.8	25.3	25.7
August 1992	W	37.0	34.8	32.7	35.1	34.0
<b>Alabama</b>						
August 1993	-	-	28.8	W	28.8	W
July 1993	W	W	27.4	W	27.4	W
August 1992	-	W	37.8	-	37.8	W
<b>Louisiana</b>						
August 1993	W	28.9	25.6	25.5	25.6	25.7
July 1993	W	33.7	23.6	24.2	24.9	24.3
August 1992	W	38.8	33.9	32.5	34.7	33.8
<b>Mississippi</b>						
August 1993	-	W	29.2	NA	29.2	NA
July 1993	-	W	26.4	W	26.4	26.0
August 1992	-	-	W	-	W	-
<b>Texas</b>						
August 1993	NA	30.2	26.6	27.8	26.5	28.6
July 1993	-	30.4	25.1	25.3	25.1	27.1
August 1992	-	36.2	35.3	33.0	35.3	34.2
<b>PAD District IV Average</b>						
August 1993	-	30.8	29.9	W	29.9	26.2
July 1993	-	34.3	27.5	W	27.5	28.4
August 1992	W	29.8	24.9	15.7	26.2	22.7
<b>PAD District V Average<sup>a</sup></b>						
August 1993	46.3	27.9	28.0	25.9	31.7	26.7
July 1993	53.0	30.4	29.8	26.5	35.0	27.5
August 1992	47.1	32.9	39.1	33.9	41.2	33.8

See footnotes at end of table.

**Table 41. Residual Fuel Oil Prices by PAD District and Selected States (Continued)**  
(Cents per Gallon Excluding Taxes)

Geographic Area Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>California</b>						
August 1993 . . .	55.2	25.5	27.2	26.6	27.4	26.1
July 1993 . . . . .	57.4	30.4	29.5	25.7	29.8	27.8
August 1992 . . .	37.8	32.9	38.0	37.3	38.0	36.2
<b>Hawaii</b>						
August 1993 . . . . .	W	W	30.1	W	42.7	NA
July 1993 . . . . .	W	-	33.8	W	46.8	W
August 1992 . . . . .	W	-	40.3	W	W	W
<b>Oregon</b>						
August 1993 . . . . .	-	-	31.1	W	31.1	W
July 1993 . . . . .	-	-	31.0	32.1	31.0	32.1
August 1992 . . . . .	-	-	42.1	41.5	42.1	41.5
<b>Washington</b>						
August 1993 . . . . .	W	-	27.7	25.2	27.7	25.2
July 1993 . . . . .	W	-	29.0	24.1	29.1	24.1
August 1992 . . . . .	-	-	38.9	37.4	38.9	37.4

■ Some State data are not sufficient for publication individually, but are used in calculating the PAD District average  
Dashes (-) = No data reported  
NA = Not available.  
W = Withheld to avoid disclosure of individual company data  
Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.  
Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."





# **Sales Volumes of Petroleum Products**



**Table 42. Refiner Total Motor Gasoline Volumes by Seller,  
PAD District, and State**  
(Thousand Gallons)

Geographic Area Month	Major Refiners			Other Refiners			Total		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Total</b>									
August 1993 . . . . .	1,262,003	53,758	6,666,160	479,460	17,068	1,840,511	1,741,462	70,826	8,506,670
July 1993 . . . . .	1,287,694	49,482	6,782,683	470,249	15,943	1,805,083	1,757,943	65,425	8,587,766
August 1992 . . . . .	1,296,840	53,024	6,533,835	462,097	19,635	1,707,392	1,758,937	72,659	8,241,227
<b>AD District I Total</b>									
August 1993 . . . . .	377,847	17,985	2,545,311	75,204	9,754	273,396	453,051	27,739	2,818,707
July 1993 . . . . .	386,085	15,622	2,608,541	77,147	9,118	273,195	463,232	24,740	2,881,736
August 1992 . . . . .	392,740	16,624	2,439,655	76,890	9,729	269,637	469,630	26,353	2,709,292
<b>Subdistrict IA Total</b>									
August 1993 . . . . .	21,420	W	322,932	-	W	16,422	21,420	4,052	339,354
July 1993 . . . . .	21,842	W	338,827	-	W	14,603	21,842	3,079	353,430
August 1992 . . . . .	20,718	W	W	-	W	W	20,718	3,134	349,104
<b>Connecticut</b>									
August 1993 . . . . .	W	W	W	-	W	W	W	630	90,610
July 1993 . . . . .	W	522	W	-	W	W	W	W	93,723
August 1992 . . . . .	W	W	W	-	W	W	W	501	99,538
<b>Maine</b>									
August 1993 . . . . .	-	W	W	-	W	W	-	223	45,879
July 1993 . . . . .	-	W	W	-	W	W	-	176	42,358
August 1992 . . . . .	-	W	W	-	W	W	-	245	45,636
<b>Massachusetts</b>									
August 1993 . . . . .	11,571	W	W	-	W	W	11,571	2,597	143,912
July 1993 . . . . .	11,905	W	W	-	W	W	11,905	1,765	156,096
August 1992 . . . . .	11,060	W	W	-	W	W	11,060	1,686	141,447
<b>New Hampshire</b>									
August 1993 . . . . .	2,838	W	W	-	W	W	2,838	W	19,616
July 1993 . . . . .	2,880	W	W	-	W	W	2,880	88	20,653
August 1992 . . . . .	W	77	W	-	W	W	W	W	20,353
<b>Rhode Island</b>									
August 1993 . . . . .	W	W	W	-	W	W	W	209	32,471
July 1993 . . . . .	W	W	32,056	-	W	W	W	236	W
August 1992 . . . . .	2,683	W	W	-	W	W	2,683	222	37,010
<b>Vermont</b>									
August 1993 . . . . .	-	-	W	-	W	W	-	W	6,866
July 1993 . . . . .	-	-	W	-	W	W	-	W	W
August 1992 . . . . .	-	W	W	-	-	W	-	W	5,120
<b>Subdistrict IB Total</b>									
August 1993 . . . . .	139,624	W	1,072,668	30,047	W	114,195	169,671	11,741	1,186,863
July 1993 . . . . .	143,288	W	1,090,336	30,786	W	125,003	174,074	10,739	1,215,339
August 1992 . . . . .	137,193	W	W	30,736	W	W	167,929	9,999	1,133,630
<b>Delaware</b>									
August 1993 . . . . .	W	258	W	-	-	W	W	258	28,300
July 1993 . . . . .	W	W	W	-	-	W	W	W	29,712
August 1992 . . . . .	W	W	23,287	-	-	1,767	W	W	25,054
<b>District of Columbia</b>									
August 1993 . . . . .	-	W	12,645	-	-	-	-	W	12,645
July 1993 . . . . .	-	W	W	-	-	W	-	W	13,405
August 1992 . . . . .	-	W	W	-	-	W	-	W	13,194
<b>Maryland</b>									
August 1993 . . . . .	-	1,720	W	NA	W	W	NA	W	162,068
July 1993 . . . . .	-	W	W	NA	W	W	NA	1,645	170,856
August 1992 . . . . .	-	W	137,827	-	W	16,658	-	934	154,485
<b>New Jersey</b>									
August 1993 . . . . .	W	W	259,606	W	W	25,084	37,907	2,874	284,590
July 1993 . . . . .	W	W	259,486	W	W	33,910	37,942	2,409	293,396
August 1992 . . . . .	W	W	252,300	W	W	37,370	35,791	2,193	289,670
<b>New York</b>									
August 1993 . . . . .	48,688	W	311,151	W	W	34,954	W	2,488	346,105
July 1993 . . . . .	51,241	W	326,164	W	W	33,740	W	1,617	359,904
August 1992 . . . . .	49,624	W	303,955	W	W	21,162	W	1,955	325,107
<b>Pennsylvania</b>									
August 1993 . . . . .	54,280	1,549	314,060	13,664	2,767	38,995	67,944	4,316	353,055
July 1993 . . . . .	55,385	1,536	308,467	13,739	3,318	39,599	69,124	4,854	348,066
August 1992 . . . . .	52,919	1,269	290,702	13,694	3,371	35,418	66,613	4,640	326,120

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**Table 42. Refiner Total Motor Gasoline Volumes by Seller,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Major Refiners			Other Refiners			Total		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Subdistrict IC Total</b>									
August 1993 . . . . .	216,803	9,600	1,149,711	45,157	2,346	142,779	261,960	11,946	1,292,490
July 1993 . . . . .	220,955	8,208	1,179,378	46,361	2,714	133,589	267,316	10,922	1,312,967
August 1992 . . . . .	234,829	10,491	1,090,725	46,154	2,729	135,833	280,983	13,220	1,226,558
<b>Florida</b>									
August 1993 . . . . .	100,581	W	346,325	10,704	W	42,104	111,365	4,674	388,429
July 1993 . . . . .	102,106	W	354,162	10,821	W	42,691	112,927	4,273	396,853
August 1992 . . . . .	110,948	W	328,232	11,467	W	43,834	122,415	4,715	372,066
<b>Georgia</b>									
August 1993 . . . . .	44,251	W	211,320	4,762	W	30,914	49,013	2,467	242,234
July 1993 . . . . .	44,842	2,302	220,298	5,453	-	27,160	50,295	2,302	247,458
August 1992 . . . . .	47,114	1,308	200,488	5,525	-	28,131	52,639	1,308	229,619
<b>North Carolina</b>									
August 1993 . . . . .	W	W	241,947	W	W	22,022	24,233	828	263,969
July 1993 . . . . .	W	W	243,879	W	W	22,928	24,555	654	266,807
August 1992 . . . . .	W	3,529	229,776	W	-	22,931	25,154	3,529	252,707
<b>South Carolina</b>									
August 1993 . . . . .	W	677	108,531	W	-	18,605	30,238	677	127,136
July 1993 . . . . .	W	W	113,883	W	W	13,304	31,029	654	127,187
August 1992 . . . . .	W	956	W	W	-	W	29,984	956	116,071
<b>Virginia</b>									
August 1993 . . . . .	W	1,646	217,790	W	357	23,467	30,892	2,003	241,257
July 1993 . . . . .	W	900	223,056	W	792	22,051	31,588	1,692	245,107
August 1992 . . . . .	W	W	205,256	W	W	21,627	32,636	1,433	226,883
<b>West Virginia</b>									
August 1993 . . . . .	W	W	23,798	W	W	5,667	16,219	1,297	29,465
July 1993 . . . . .	W	W	24,100	W	W	5,455	16,922	1,347	29,555
August 1992 . . . . .	W	W	W	W	W	W	18,155	1,279	29,212
<b>PAD District II Total</b>									
August 1993 . . . . .	464,302	20,531	1,758,042	181,846	1,523	640,265	646,148	22,054	2,398,307
July 1993 . . . . .	476,285	18,192	1,797,298	183,936	1,344	617,517	660,221	19,536	2,414,815
August 1992 . . . . .	472,741	18,892	1,705,525	181,348	778	595,532	654,089	19,670	2,301,057
<b>Illinois</b>									
August 1993 . . . . .	W	W	257,677	W	W	59,885	80,420	1,249	317,362
July 1993 . . . . .	W	978	266,023	W	NA	39,364	80,433	979	305,387
August 1992 . . . . .	W	W	248,149	W	W	38,789	78,346	1,150	286,938
<b>Indiana</b>									
August 1993 . . . . .	W	W	141,320	W	W	25,632	55,396	718	166,952
July 1993 . . . . .	W	W	140,348	W	W	25,608	56,039	684	165,956
August 1992 . . . . .	W	W	138,047	W	W	38,907	52,984	827	176,954
<b>Iowa</b>									
August 1993 . . . . .	2,451	W	58,566	7,506	-	50,504	9,957	W	109,070
July 1993 . . . . .	2,420	W	63,835	7,540	-	48,116	9,960	W	111,951
August 1992 . . . . .	2,685	W	68,749	9,043	-	42,248	11,728	W	110,997
<b>Kansas</b>									
August 1993 . . . . .	8,641	W	37,590	12,543	W	77,419	21,184	731	115,009
July 1993 . . . . .	8,649	W	37,979	12,989	W	76,507	21,838	609	114,486
August 1992 . . . . .	8,379	W	38,657	11,005	W	79,311	19,384	368	117,968
<b>Kentucky</b>									
August 1993 . . . . .	25,249	1,969	110,028	1,624	-	11,162	26,873	1,969	121,190
July 1993 . . . . .	26,281	1,842	112,934	3,373	-	8,917	29,654	1,842	121,851
August 1992 . . . . .	25,529	1,841	103,400	3,341	-	12,909	28,870	1,841	116,309
<b>Michigan</b>									
August 1993 . . . . .	W	W	257,026	W	W	43,361	94,267	4,219	300,387
July 1993 . . . . .	W	W	262,053	W	W	46,579	96,340	3,746	308,632
August 1992 . . . . .	W	3,910	253,014	W	-	44,416	96,646	3,910	297,430
<b>Minnesota</b>									
August 1993 . . . . .	35,912	W	83,068	10,479	W	51,600	46,391	628	134,668
July 1993 . . . . .	34,985	W	77,042	10,744	W	51,972	45,729	542	129,014
August 1992 . . . . .	30,436	W	80,184	10,819	W	49,297	41,255	459	129,481
<b>Missouri</b>									
August 1993 . . . . .	21,709	W	109,761	18,666	W	39,793	40,375	W	149,554
July 1993 . . . . .	22,130	W	113,162	18,884	W	49,033	41,024	962	162,195
August 1992 . . . . .	24,105	963	102,510	16,879	-	49,427	40,984	963	151,937

See footnotes at end of table

**Table 42. Refiner Total Motor Gasoline Volumes by Seller,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Major Refiners			Other Refiners			Total		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Nebraska</b>									
August 1993	W	W	30,918	W	W	31,030	6,056	230	61,948
July 1993	W	W	32,481	W	W	29,779	6,125	245	62,260
August 1992	W	W	29,608	W	-	28,548	7,035	W	58,156
<b>North Dakota</b>									
August 1993	463	W	15,611	-	-	19,580	463	W	35,191
July 1993	W	61	15,422	W	-	16,758	521	61	32,180
August 1992	646	W	15,854	W	-	16,772	W	W	32,626
<b>Ohio</b>									
August 1993	W	W	231,275	W	W	18,604	168,375	7,856	249,879
July 1993	W	W	236,468	W	W	17,398	173,338	7,223	253,866
August 1992	W	W	220,132	W	W	12,944	177,692	7,453	233,076
<b>Oklahoma</b>									
August 1993	17,450	W	94,673	7,362	W	107,826	24,812	1,821	202,499
July 1993	18,324	W	90,328	7,620	W	112,110	25,944	1,300	202,438
August 1992	18,341	1,134	97,366	7,454	17	86,272	25,795	1,151	183,638
<b>South Dakota</b>									
August 1993	W	W	21,452	W	W	18,332	787	18	39,784
July 1993	W	W	23,146	W	-	17,133	831	W	40,279
August 1992	W	W	20,299	W	NA	18,795	W	W	39,094
<b>Tennessee</b>									
August 1993	28,430	716	195,570	15,758	177	34,665	44,188	893	230,235
July 1993	29,493	686	206,221	16,017	182	26,005	45,510	868	232,226
August 1992	29,471	813	174,786	15,596	170	30,179	45,067	983	204,965
<b>Wisconsin</b>									
August 1993	W	W	113,507	W	W	51,072	26,604	382	164,579
July 1993	W	W	119,858	W	W	52,238	27,135	339	172,094
August 1992	W	W	114,770	W	W	46,718	26,884	323	161,488
<b>PAD District III Total</b>									
August 1993	159,607	5,387	872,748	107,309	2,613	560,069	266,916	8,000	1,432,817
July 1993	163,657	5,345	945,439	95,021	2,726	540,097	258,678	8,071	1,485,536
August 1992	171,957	5,019	974,982	98,053	1,697	479,589	270,010	6,716	1,454,551
<b>Alabama</b>									
August 1993	10,500	W	122,997	2,993	W	28,076	13,493	1,032	152,073
July 1993	11,438	W	126,636	3,080	W	28,283	14,518	1,082	155,919
August 1992	12,162	W	119,096	3,879	W	27,262	16,041	1,088	146,358
<b>Arkansas</b>									
August 1993	W	W	67,471	W	W	46,852	10,330	149	114,323
July 1993	W	W	70,737	W	W	49,734	11,034	133	120,471
August 1992	W	W	64,260	W	W	36,639	12,199	156	100,899
<b>Louisiana</b>									
August 1993	19,680	1,093	120,179	4,810	50	58,981	24,490	1,143	179,160
July 1993	20,475	1,114	118,974	4,110	64	43,683	24,585	1,178	180,657
August 1992	20,688	814	134,953	4,418	70	47,018	25,106	884	181,971
<b>Mississippi</b>									
August 1993	W	192	78,709	W	275	37,601	4,227	467	116,310
July 1993	W	145	106,494	W	255	36,597	4,535	400	143,091
August 1992	W	317	80,800	W	281	33,536	5,714	598	114,336
<b>New Mexico</b>									
August 1993	3,062	367	33,298	7,923	89	25,336	10,985	456	58,634
July 1993	3,088	394	31,605	7,028	98	25,403	10,116	492	57,008
August 1992	3,308	W	32,947	7,041	W	23,257	10,349	304	56,204
<b>Texas</b>									
August 1993	121,396	2,616	450,094	81,995	2,137	362,223	203,391	4,753	812,317
July 1993	123,305	W	492,993	70,585	W	355,397	193,890	4,786	848,390
August 1992	128,711	2,519	542,906	71,890	1,187	311,877	200,601	3,686	854,783
<b>PAD District IV Total</b>									
August 1993	39,503	618	182,747	32,886	629	102,287	72,399	1,247	285,034
July 1993	40,307	618	173,718	31,210	489	102,840	71,517	1,107	276,558
August 1992	42,152	505	181,928	29,359	1,000	105,408	71,511	1,505	267,336

See footnotes at end of table.

**Table 42. Refiner Total Motor Gasoline Volumes by Seller,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Major Refiners			Other Refiners			Total		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Colorado</b>									
August 1993	27,068	W	57,520	29,524	W	37,147	56,592	W	94,667
July 1993	27,801	W	57,020	27,629	W	39,398	55,430	W	96,418
August 1992	27,762	W	50,437	26,078	W	38,632	53,840	409	89,069
<b>Idaho</b>									
August 1993	-	W	31,842	W	-	16,975	W	W	48,817
July 1993	-	W	33,426	W	-	16,003	W	W	49,429
August 1992	W	W	29,163	W	-	16,507	633	W	45,670
<b>Montana</b>									
August 1993	-	W	30,554	W	NA	17,049	W	NA	47,603
July 1993	-	W	27,204	W	NA	14,048	W	NA	41,252
August 1992	W	W	26,515	W	W	18,771	W	253	45,286
<b>Utah</b>									
August 1993	W	W	49,400	W	W	18,874	12,525	535	68,274
July 1993	W	W	42,656	W	W	19,608	12,589	584	62,264
August 1992	W	W	44,451	W	W	19,586	11,435	515	64,037
<b>Wyoming</b>									
August 1993	W	W	13,431	W	W	12,242	2,456	157	25,673
July 1993	W	W	13,412	W	W	13,783	2,577	153	27,195
August 1992	W	73	11,362	1,492	W	11,912	W	W	23,274
<b>PAD District V Total</b>									
August 1993	220,744	9,237	1,307,312	82,205	2,550	264,494	302,949	11,787	1,571,806
July 1993	221,360	9,706	1,257,687	82,935	2,266	271,434	304,295	11,971	1,529,121
August 1992	217,250	11,984	1,251,765	76,447	6,431	257,226	293,697	18,415	1,508,991
<b>Alaska</b>									
August 1993	W	W	W	W	W	W	7,165	W	15,351
July 1993	W	W	W	W	W	W	7,580	801	17,703
August 1992	W	W	W	W	W	W	6,260	1,491	16,490
<b>Arizona</b>									
August 1993	W	W	82,574	W	W	12,827	32,531	970	95,401
July 1993	W	W	82,277	W	W	10,742	32,627	880	93,019
August 1992	W	558	80,779	W	1,511	14,266	32,736	2,069	95,045
<b>California</b>									
August 1993	136,896	W	875,154	59,460	W	191,114	196,356	5,879	1,066,268
July 1993	137,008	W	845,156	59,611	W	198,269	196,619	6,124	1,043,425
August 1992	131,614	W	833,402	54,566	W	192,601	186,180	10,230	1,026,003
<b>Hawaii</b>									
August 1993	W	W	W	W	W	W	5,683	W	22,300
July 1993	W	W	W	W	W	W	5,767	W	22,512
August 1992	W	W	W	W	W	W	5,742	W	22,172
<b>Nevada</b>									
August 1993	W	W	54,031	W	W	10,956	4,181	422	64,987
July 1993	W	W	53,001	W	W	12,423	4,187	391	65,424
August 1992	W	W	50,404	W	W	11,475	4,462	476	61,879
<b>Oregon</b>									
August 1993	W	W	100,779	W	W	19,601	14,332	339	120,380
July 1993	W	308	89,734	W	W	19,252	14,639	W	108,986
August 1992	W	280	100,318	W	W	11,903	14,027	W	112,221
<b>Washington</b>									
August 1993	W	368	166,111	W	-	21,008	42,701	368	187,119
July 1993	W	W	157,492	W	W	20,560	42,876	506	178,052
August 1992	W	W	157,914	W	W	17,267	44,290	932	175,181

Notes: (1) No data reported.

Individual company data  
 are preliminary. Values shown for previous month are revised. Data are final upon publication in  
 not equal the sum of components due to rounding.  
 Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 43. Refiner Motor Gasoline Volumes by Grade,  
PAD District, and State**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Total</b>								
August 1993 ..	16,453	105,657	1,163,055	5,790,730	292,149	889,541	340,631	1,720,742
July 1993 ..	16,649	102,402	1,172,538	5,868,535	292,869	906,259	341,312	1,710,570
August 1992 . ...	22,186	134,374	1,201,985	5,646,629	284,469	869,370	322,956	1,590,854
<b>PAD District I Total</b>								
August 1993 .. ..	W	15	281,263	1,649,279	W	403,794	111,468	765,619
July 1993 . . . .	W	W	282,827	1,706,201	W	W	117,086	760,879
August 1992 . . .	W	102	300,048	1,593,245	W	405,830	105,373	710,115
<b>Subdistrict IA Total</b>								
August 1993 .. ..	-	-	14,233	197,971	4,685	49,999	6,554	91,384
July 1993 .. . . .	-	-	13,814	215,791	4,571	50,937	6,436	86,702
August 1992 .. . .	-	-	13,576	211,673	4,444	50,877	5,832	86,554
<b>Connecticut</b>								
August 1993 .....	-	-	W	50,089	960	15,721	1,463	24,800
July 1993 .....	-	-	2,802	52,265	951	16,170	W	25,288
August 1992 . . . .	-	-	2,493	56,397	1,033	16,847	W	26,294
<b>Maine</b>								
August 1993 .. . . .	-	-	202	30,798	W	5,700	W	9,381
July 1993 .....	-	-	W	28,442	W	5,645	W	8,271
August 1992 . . . . .	-	-	W	30,999	W	5,668	W	8,969
<b>Massachusetts</b>								
August 1993 .....	-	-	8,009	81,274	2,592	20,044	3,577	42,594
July 1993 . . . . .	-	-	7,701	98,359	2,516	19,557	3,453	38,180
August 1992 .....	-	-	7,453	86,131	2,293	19,114	3,000	36,202
<b>New Hampshire</b>								
August 1993 .....	-	-	1,857	12,099	W	W	803	W
July 1993 .....	-	-	1,686	12,710	517	W	765	W
August 1992 .....	-	-	1,793	12,941	W	W	636	W
<b>Rhode Island</b>								
August 1993 .....	-	-	1,417	19,406	582	4,219	W	8,846
July 1993 .....	-	-	1,540	19,920	W	W	718	8,132
August 1992 . . . . .	-	-	1,590	21,965	602	5,179	713	9,866
<b>Vermont</b>								
August 1993 . . . . .	-	-	W	4,305	-	W	-	W
July 1993 .....	-	-	W	4,095	-	W	-	W
August 1992 .....	-	-	W	3,240	-	W	-	W
<b>Subdistrict IB Total</b>								
August 1993 .....	W	W	109,734	679,263	W	W	42,665	366,785
July 1993 .....	W	W	109,448	704,832	W	W	47,014	354,469
August 1992 .....	W	W	111,122	635,825	W	W	38,004	341,456
<b>Delaware</b>								
August 1993 .....	-	-	734	16,566	291	5,984	W	5,750
July 1993 .....	-	-	664	18,357	308	5,870	W	5,485
August 1992 . . . . .	-	-	638	14,256	253	5,482	W	5,314
<b>District of Columbia</b>								
August 1993 .....	-	-	W	3,908	W	2,614	W	6,123
July 1993 .....	-	-	W	4,235	W	2,788	W	6,382
August 1992 .....	-	-	W	4,384	W	2,719	W	6,091
<b>Maryland</b>								
August 1993 . . . . .	-	-	W	83,204	258	31,620	277	47,164
July 1993 . . . . .	-	-	1,084	90,545	266	33,708	318	46,803
August 1992 .....	-	-	577	78,929	218	33,453	139	42,103
<b>New Jersey</b>								
August 1993 .....	-	-	21,883	148,452	6,187	31,945	12,511	104,293
July 1993 .....	-	-	21,668	159,179	6,161	32,985	12,522	101,232
August 1992 .....	-	-	20,276	149,644	6,253	32,359	11,455	107,667
<b>New York</b>								
August 1993 .....	W	W	41,872	199,759	8,551	W	14,817	109,651
July 1993 .....	W	W	41,826	211,344	7,712	W	18,204	110,655
August 1992 .....	W	W	43,989	184,682	8,857	W	13,661	104,231
<b>Pennsylvania</b>								
August 1993 .....	W	W	43,912	227,294	W	W	14,713	83,804
July 1993 .....	W	W	W	221,172	13,843	W	15,718	84,112
August 1992 .....	W	W	W	203,928	13,147	W	12,483	76,050
<b>Subdistrict IC Total</b>								
August 1993 . . . . .	W	W	157,296	772,045	W	W	62,249	317,450
July 1993 .....	W	-	159,465	785,578	W	207,681	63,636	319,708
August 1992 .....	W	W	175,350	745,747	W	W	61,537	282,105

See footnotes at end of table.

**Table 43. Refiner Motor Gasoline Volumes by Grade,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Florida</b>								
August 1993 .. .	-	-	60,993	213,415	23,205	64,901	31,841	110,113
July 1993 .. .	-	-	61,420	220,604	23,829	64,733	31,951	111,516
August 1992 .. .	-	-	68,839	208,472	25,806	61,369	32,485	102,225
<b>Georgia</b>								
August 1993 .. .	-	-	30,290	150,774	10,446	34,801	10,744	56,659
July 1993 .. .	-	-	30,933	154,127	10,646	35,616	11,018	57,715
August 1992 .. .	-	-	33,412	144,240	10,295	36,091	10,240	49,288
<b>North Carolina</b>								
August 1993 .. .	-	-	16,022	167,921	4,841	39,406	4,198	56,642
July 1993 .. .	-	-	16,009	170,204	4,869	39,794	4,331	56,809
August 1992 .. .	-	-	19,440	164,241	5,125	39,157	4,118	49,309
<b>South Carolina</b>								
August 1993 .. .	-	-	19,682	83,664	5,875	18,147	5,358	25,325
July 1993 .. .	-	-	20,061	82,698	5,642	18,892	5,980	25,597
August 1992 .. .	-	-	21,137	77,135	5,351	17,639	4,452	21,297
<b>Virginia</b>								
August 1993 .. .	-	W	18,647	136,982	6,732	W	7,516	63,199
July 1993 .. .	-	-	18,732	139,126	6,777	43,469	7,771	62,512
August 1992 .. .	-	-	19,488	132,961	7,183	39,536	7,398	54,386
<b>West Virginia</b>								
August 1993 .. .	W	-	11,662	19,289	W	4,664	2,592	5,512
July 1993 .. .	W	-	12,310	18,819	W	5,177	2,585	5,559
August 1992 .. .	W	W	13,034	18,698	W	W	2,844	5,600
<b>PAD District II Total</b>								
August 1993 .. .	W	5,277	462,002	1,846,949	W	184,878	103,561	361,203
July 1993 .. .	W	W	473,457	1,856,668	W	W	101,175	360,250
August 1992 .. .	W	8,847	473,158	1,786,317	W	186,992	95,652	318,901
<b>Illinois</b>								
August 1993 .. .	-	W	54,367	227,754	13,038	W	14,264	58,075
July 1993 .. .	-	W	55,275	217,679	13,374	W	12,763	55,241
August 1992 .. .	-	W	53,129	203,819	13,086	W	13,281	49,532
<b>Indiana</b>								
August 1993 .. .	W	W	38,262	120,139	W	W	9,150	26,852
July 1993 .. .	W	W	38,784	116,146	W	W	9,079	26,657
August 1992 .. .	W	W	37,814	130,034	8,173	W	W	24,239
<b>Iowa</b>								
August 1993 .. .	W	-	8,648	99,948	W	766	910	8,356
July 1993 .. .	W	-	8,630	103,113	490	1,008	905	7,830
August 1992 .. .	W	-	9,516	100,367	1,171	1,776	1,100	8,854
<b>Kansas</b>								
August 1993 .. .	-	-	17,623	102,606	1,690	1,989	2,602	10,414
July 1993 .. .	-	W	17,849	102,430	1,746	W	2,652	9,982
August 1992 .. .	W	27	15,481	105,294	W	2,650	2,505	9,997
<b>Kentucky</b>								
August 1993 .. .	W	W	18,510	82,203	5,190	W	W	22,922
July 1993 .. .	W	W	20,678	81,379	5,433	W	W	23,479
August 1992 .. .	W	W	20,555	80,087	5,034	W	W	19,591
<b>Michigan</b>								
August 1993 .. .	-	W	71,011	220,395	12,325	W	15,150	51,469
July 1993 .. .	-	W	72,757	227,756	12,704	W	14,625	51,478
August 1992 .. .	W	1,635	75,031	223,238	W	27,420	12,807	45,137
<b>Minnesota</b>								
August 1993 .. .	W	-	36,111	116,541	5,557	6,456	W	11,671
July 1993 .. .	W	-	35,605	111,957	5,429	6,386	W	10,671
August 1992 .. .	W	-	31,819	111,368	4,917	6,530	W	11,583
<b>Missouri</b>								
August 1993 .. .	-	-	29,411	115,782	W	7,881	6,272	25,891
July 1993 .. .	-	-	29,812	127,693	5,990	8,213	6,384	26,289
August 1992 .. .	W	W	29,108	117,722	W	W	6,506	23,181
<b>Nebraska</b>								
August 1993 .. .	W	W	5,394	57,976	281	W	W	3,834
July 1993 .. .	W	W	5,483	58,328	W	W	554	3,747
August 1992 .. .	W	W	4,726	54,321	1,728	W	532	3,175
<b>North Dakota</b>								
August 1993 .. .	-	W	424	31,404	W	W	NA	1,782
July 1993 .. .	W	W	480	28,756	W	W	50	1,741
August 1992 .. .	W	W	553	28,420	55	W	98	1,792

See footnotes at end of table.



**Table 43. Refiner Motor Gasoline Volumes by Grade,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Ohio</b>								
August 1993 .....	W	W	116,486	182,421	33,035	W	W	39,397
July 1993 .....	W	W	120,853	185,096	33,660	W	W	40,492
August 1992 .....	W	W	127,178	174,645	33,287	W	W	35,744
<b>Oklahoma</b>								
August 1993 .....	-	W	18,279	178,846	3,876	W	4,478	21,543
July 1993 .....	-	W	18,853	177,074	4,006	W	4,385	21,103
August 1992 .....	W	1,465	18,672	158,990	W	3,024	4,380	20,159
<b>South Dakota</b>								
August 1993 .....	-	W	761	35,255	W	W	W	3,342
July 1993 .....	-	W	797	36,043	W	W	34	3,148
August 1992 .....	-	W	734	35,262	W	W	27	2,820
<b>Tennessee</b>								
August 1993 .....	-	-	26,199	143,709	9,435	34,095	9,447	52,431
July 1993 .....	-	-	26,896	144,968	9,904	34,947	9,578	52,311
August 1992 .....	-	W	28,022	131,573	9,480	W	8,548	42,033
<b>Wisconsin</b>								
August 1993 .....	-	-	20,515	131,970	2,881	9,385	3,590	23,224
July 1993 .....	-	-	20,905	138,250	2,911	9,763	3,658	24,081
August 1992 .....	-	-	20,820	131,177	2,894	9,247	3,483	21,064
<b>PAD District III Total</b>								
August 1993 .....	1,301	7,325	163,352	1,033,029	52,981	145,736	57,282	246,727
July 1993 .....	1,113	7,618	158,857	1,081,128	51,470	148,059	55,309	248,731
August 1992 .....	1,608	13,271	168,495	1,070,797	52,124	139,882	54,499	230,601
<b>Alabama</b>								
August 1993 .....	-	-	8,466	99,299	2,974	20,431	3,085	32,343
July 1993 .....	-	-	9,017	102,018	3,264	20,517	3,319	33,384
August 1992 .....	-	-	10,585	98,432	3,548	19,906	2,986	28,020
<b>Arkansas</b>								
August 1993 .....	-	W	7,164	84,534	1,963	W	1,352	19,802
July 1993 .....	-	W	7,625	87,200	2,106	W	1,436	23,738
August 1992 .....	-	W	8,478	72,907	2,305	W	1,572	17,282
<b>Louisiana</b>								
August 1993 .....	-	-	13,999	122,688	5,423	20,675	6,211	35,797
July 1993 .....	-	-	13,958	100,985	5,460	21,622	6,345	38,050
August 1992 .....	-	-	14,379	123,800	5,383	20,954	6,228	37,217
<b>Mississippi</b>								
August 1993 .....	-	-	3,092	81,386	818	13,880	784	21,044
July 1993 .....	-	-	3,226	101,121	874	13,897	835	28,073
August 1992 .....	-	-	4,198	89,676	W	11,904	W	18,756
<b>New Mexico</b>								
August 1993 .....	W	5,778	8,653	44,884	W	2,138	1,248	5,854
July 1993 .....	W	5,853	8,140	43,572	W	2,141	1,095	5,642
August 1992 .....	1,117	7,945	7,894	41,726	W	843	W	5,690
<b>Texas</b>								
August 1993 .....	W	W	121,978	600,258	W	W	44,602	131,887
July 1993 .....	W	W	116,891	646,232	W	W	42,279	119,844
August 1992 .....	491	W	122,951	650,256	39,315	W	41,530	123,836
<b>PAD District IV Total</b>								
August 1993 .....	1,249	27,395	47,526	198,658	12,396	12,545	12,475	46,436
July 1993 .....	1,313	25,558	46,873	195,541	12,086	12,261	12,352	43,198
August 1992 .....	3,785	36,125	48,356	181,039	8,835	10,160	12,040	40,012
<b>Colorado</b>								
August 1993 .....	W	1,662	37,600	69,109	W	8,956	8,457	14,940
July 1993 .....	W	1,767	36,873	71,473	9,789	8,905	8,289	14,273
August 1992 .....	W	5,724	36,749	60,289	W	8,109	8,191	14,947
<b>Idaho</b>								
August 1993 .....	76	W	319	32,654	-	W	W	6,278
July 1993 .....	84	W	381	33,522	-	W	W	6,026
August 1992 .....	113	10,602	516	30,503	-	-	W	4,685
<b>Montana</b>								
August 1993 .....	W	8,042	602	32,327	-	-	W	7,234
July 1993 .....	W	6,029	460	28,186	-	-	82	6,027
August 1992 .....	W	9,116	2,277	29,948	-	-	521	6,222

See footnotes at end of table

**Table 43. Refiner Motor Gasoline Volumes by Grade,  
PAD District, and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular		Unleaded Regular		Unleaded Midgrade		Premium	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Utah</b>								
August 1993 . . . . .	W	5,763	7,174	45,918	W	2,945	3,360	13,648
July 1993 . . . . .	W	5,736	7,209	41,424	2,297	2,584	W	12,520
August 1992 . . . . .	W	W	6,896	43,355	W	W	2,714	10,772
<b>Wyoming</b>								
August 1993 . . . . .	243	W	1,831	18,650	-	W	539	4,336
July 1993 . . . . .	262	W	1,950	19,926	-	W	518	4,352
August 1992 . . . . .	383	W	1,918	16,944	-	W	W	3,406
<b>PAD District V Total</b>								
August 1993 . . . . .	13,583	65,645	208,913	1,062,815	36,395	142,589	55,845	300,757
July 1993 . . . . .	13,875	63,864	210,524	1,028,997	36,477	138,748	55,390	297,512
August 1992 . . . . .	15,933	76,029	211,928	1,015,231	28,859	126,506	55,392	291,225
<b>Alaska</b>								
August 1993 . . . . .	W	632	6,725	13,308	-	-	979	1,411
July 1993 . . . . .	W	774	6,915	15,323	-	-	W	1,606
August 1992 . . . . .	577	947	6,200	14,199	-	-	974	1,344
<b>Arizona</b>								
August 1993 . . . . .	3,587	12,509	23,482	67,080	161	484	6,271	15,328
July 1993 . . . . .	3,639	W	23,414	64,290	171	W	6,283	15,173
August 1992 . . . . .	4,295	14,437	24,745	66,434	148	442	5,617	13,732
<b>California</b>								
August 1993 . . . . .	W	-	130,496	715,733	W	133,594	37,206	216,941
July 1993 . . . . .	W	-	131,376	696,182	W	129,996	36,799	217,247
August 1992 . . . . .	W	W	132,235	686,868	W	119,366	37,181	W
<b>Hawaii</b>								
August 1993 . . . . .	-	-	5,168	12,029	W	2,627	2,327	7,644
July 1993 . . . . .	-	-	5,178	12,136	1,099	2,567	W	7,809
August 1992 . . . . .	-	-	5,272	12,294	W	2,305	2,278	7,573
<b>Nevada</b>								
August 1993 . . . . .	-	141	3,366	47,540	592	5,754	645	11,552
July 1993 . . . . .	-	122	3,335	48,667	595	5,481	848	11,154
August 1992 . . . . .	W	639	3,574	46,858	W	4,343	690	10,039
<b>Oregon</b>								
August 1993 . . . . .	2,215	20,742	10,334	84,729	W	W	W	W
July 1993 . . . . .	2,340	20,329	10,608	75,878	W	-	2,024	12,779
August 1992 . . . . .	2,479	W	9,921	75,435	W	W	1,976	12,474
<b>Washington</b>								
August 1993 . . . . .	7,374	31,621	29,342	122,396	W	W	W	W
July 1993 . . . . .	7,446	W	29,698	116,521	W	W	W	31,744
August 1992 . . . . .	8,565	35,724	29,981	113,143	-	W	6,676	W

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report."

**Table 44. Refiner Volumes of Aviation Fuels and Propane  
by PAD District and State**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Total</b>						
August 1993	7,098	25,492	1,319,932	248,206	78,298	770,745
July 1993	7,650	25,554	1,337,241	240,228	65,462	667,815
August 1992	7,360	25,989	1,306,106	239,964	94,742	749,715
<b>PAD District I Total</b>						
August 1993	2,861	4,159	375,850	38,563	NA	106,711
July 1993	3,176	3,776	386,652	39,064	NA	83,466
August 1992	3,082	3,977	363,697	34,856	W	109,434
<b>Subdistrict IA Total</b>						
August 1993	W	W	36,506	2,440	W	3,253
July 1993	W	W	36,592	2,310	W	3,964
August 1992	W	W	36,585	991	W	5,330
<b>Connecticut</b>						
August 1993	W	W	6,790	W	W	813
July 1993	W	W	7,303	W	W	733
August 1992	W	W	6,303	W	W	1,463
<b>Maine</b>						
August 1993	W	-	W	W	W	111
July 1993	W	-	W	W	W	133
August 1992	W	-	W	W	W	W
<b>Massachusetts</b>						
August 1993	W	W	23,032	1,926	W	1,547
July 1993	W	W	23,031	1,907	W	1,584
August 1992	W	W	22,543	711	W	2,105
<b>New Hampshire</b>						
August 1993	W	W	755	W	W	NA
July 1993	W	W	651	W	NA	1,023
August 1992	W	W	755	W	W	974
<b>Rhode Island</b>						
August 1993	W	W	1,684	W	-	NA
July 1993	W	W	1,531	W	-	NA
August 1992	W	W	1,760	W	-	W
<b>Vermont</b>						
August 1993	W	W	W	-	NA	359
July 1993	W	W	W	W	NA	208
August 1992	W	W	W	W	W	506
<b>Subdistrict IB Total</b>						
August 1993	W	W	184,779	25,983	72	34,148
July 1993	W	W	194,071	26,501	W	29,573
August 1992	W	W	190,367	25,909	W	36,839
<b>Delaware</b>						
August 1993	W	W	W	W	-	W
July 1993	W	W	W	W	-	W
August 1992	W	W	71	W	-	W
<b>District of Columbia</b>						
August 1993	W	-	W	-	-	-
July 1993	W	-	W	-	-	-
August 1992	W	-	-	-	-	-
<b>Maryland</b>						
August 1993	W	W	5,491	W	-	W
July 1993	W	W	7,014	W	NA	W
August 1992	W	W	8,013	W	W	W
<b>New Jersey</b>						
August 1993	233	W	136,496	14,264	W	6,712
July 1993	268	W	145,799	13,757	W	5,531
August 1992	W	W	144,060	17,549	251	8,368
<b>New York</b>						
August 1993	W	W	11,354	5,573	W	4,042
July 1993	W	W	11,393	6,292	W	4,070
August 1992	W	W	9,506	2,859	W	4,989
<b>Pennsylvania</b>						
August 1993	W	158	29,892	5,861	W	17,845
July 1993	W	136	28,901	6,136	NA	17,636
August 1992	W	142	28,717	5,189	W	17,828
<b>Subdistrict IC Total</b>						
August 1993	1,502	2,673	154,665	10,140	NA	69,310
July 1993	1,781	2,484	155,989	10,253	NA	49,929
August 1992	1,712	2,767	136,745	7,958	12,597	67,265

See footnotes at end of table.

**Table 44. Refiner Volumes of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Florida</b>						
August 1993 . . . . .	857	1,034	74,081	5,644	W	11,779
July 1993 . . . . .	1,075	1,155	68,425	5,402	W	10,409
August 1992 . . . . .	1,133	1,104	56,775	3,716	W	10,292
<b>Georgia</b>						
August 1993 . . . . .	160	W	38,875	2,040	W	13,450
July 1993 . . . . .	154	650	39,383	2,437	NA	9,179
August 1992 . . . . .	164	W	32,584	1,466	W	13,448
<b>North Carolina</b>						
August 1993 . . . . .	W	W	5,409	960	W	26,944
July 1993 . . . . .	W	W	9,194	966	NA	14,144
August 1992 . . . . .	W	W	9,422	671	W	25,350
<b>South Carolina</b>						
August 1993 . . . . .	W	311	W	W	1,888	11,401
July 1993 . . . . .	W	162	W	W	W	W
August 1992 . . . . .	W	164	2,078	W	W	14,701
<b>Virginia</b>						
August 1993 . . . . .	W	213	33,561	1,115	NA	W
July 1993 . . . . .	220	145	36,349	1,130	470	8,513
August 1992 . . . . .	102	W	35,365	1,529	874	3,043
<b>West Virginia</b>						
August 1993 . . . . .	W	W	W	W	NA	W
July 1993 . . . . .	W	W	W	W	NA	W
August 1992 . . . . .	W	W	521	W	W	431
<b>PAD District II Total</b>						
August 1993 . . . . .	1,757	6,497	253,830	36,727	23,982	275,050
July 1993 . . . . .	1,742	6,515	243,818	31,992	21,140	213,146
August 1992 . . . . .	1,465	6,473	271,080	26,747	33,911	225,342
<b>Illinois</b>						
August 1993 . . . . .	W	W	45,110	2,904	4,263	30,641
July 1993 . . . . .	W	W	40,375	2,576	3,511	20,497
August 1992 . . . . .	W	W	33,809	2,253	4,290	25,992
<b>Indiana</b>						
August 1993 . . . . .	W	919	42,639	10,016	2,021	11,169
July 1993 . . . . .	37	869	45,665	4,399	1,741	10,324
August 1992 . . . . .	87	941	52,041	7,150	2,232	14,054
<b>Iowa</b>						
August 1993 . . . . .	W	431	1,257	810	W	12,153
July 1993 . . . . .	W	427	1,247	708	W	8,193
August 1992 . . . . .	W	331	1,275	991	W	11,505
<b>Kansas</b>						
August 1993 . . . . .	W	584	W	W	W	99,770
July 1993 . . . . .	W	580	W	W	1,372	97,671
August 1992 . . . . .	W	462	8,279	461	W	54,876
<b>Kentucky</b>						
August 1993 . . . . .	W	W	14,112	1,529	W	14,503
July 1993 . . . . .	W	140	15,504	1,622	W	8,497
August 1992 . . . . .	W	W	22,118	1,412	2,602	13,619
<b>Michigan</b>						
August 1993 . . . . .	W	W	25,871	1,594	NA	8,673
July 1993 . . . . .	W	W	27,312	1,760	NA	5,795
August 1992 . . . . .	W	W	31,392	1,159	5,819	10,241
<b>Minnesota</b>						
August 1993 . . . . .	W	714	28,052	2,242	W	15,340
July 1993 . . . . .	W	697	28,653	2,298	W	10,183
August 1992 . . . . .	W	791	28,821	1,610	10,036	11,345
<b>Missouri</b>						
August 1993 . . . . .	W	466	10,852	3,008	W	16,537
July 1993 . . . . .	W	383	9,962	2,992	W	8,269
August 1992 . . . . .	W	400	10,293	1,876	432	18,724
<b>Nebraska</b>						
August 1993 . . . . .	W	391	1,605	741	-	6,670
July 1993 . . . . .	W	297	1,489	589	-	2,532
August 1992 . . . . .	W	295	1,727	481	W	5,863
<b>North Dakota</b>						
August 1993 . . . . .	W	W	654	173	W	8,962
July 1993 . . . . .	W	W	584	207	W	5,371
August 1992 . . . . .	W	W	612	W	W	8,162

See footnotes at end of table.

**Table 44. Refiner Volumes of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Ohio</b>						
August 1993 .	W	435	33,858	3,563	1,579	17,642
July 1993 .	W	415	26,353	3,685	1,597	11,341
August 1992	W	512	35,877	2,944	1,793	14,706
<b>Oklahoma</b>						
August 1993 . . .	W	386	19,076	7,140	330	14,403
July 1993 . . . .	W	341	14,498	8,093	166	11,258
August 1992 . . .	W	309	25,486	3,782	W	15,887
<b>South Dakota</b>						
August 1993 .	W	W	W	W	W	3,365
July 1993 . . . . .	W	W	W	W	W	1,370
August 1992 . . . .	W	W	450	W	W	3,352
<b>Tennessee</b>						
August 1993 . . . .	W	205	17,088	1,199	NA	4,714
July 1993 . . . . .	214	461	19,209	1,284	NA	4,288
August 1992 . . . .	W	423	14,773	1,256	W	6,985
<b>Wisconsin</b>						
August 1993 . . . .	-	625	5,045	975	2,407	10,508
July 1993 . . . . .	W	656	4,389	1,019	1,820	7,557
August 1992 . . . .	W	647	4,127	937	1,821	10,031
<b>PAD District III Total</b>						
August 1993 . . . . .	713	5,415	250,322	100,083	25,337	314,696
July 1993 . . . . .	895	5,572	274,344	95,492	26,845	306,634
August 1992 . . . . .	707	4,787	247,713	95,581	33,399	341,309
<b>Alabama</b>						
August 1993 . . . . .	154	360	3,263	617	607	9,431
July 1993 . . . . .	132	379	3,194	494	NA	6,173
August 1992 . . . . .	135	347	3,490	573	897	10,280
<b>Arkansas</b>						
August 1993 . . . . .	W	W	479	884	W	5,306
July 1993 . . . . .	W	W	618	1,075	W	3,579
August 1992 . . . . .	W	W	472	814	W	3,265
<b>Louisiana</b>						
August 1993 . . . . .	W	219	67,554	13,510	7,873	17,882
July 1993 . . . . .	W	196	63,762	17,223	W	17,776
August 1992 . . . . .	W	235	48,784	8,351	8,092	18,232
<b>Mississippi</b>						
August 1993 . . . . .	94	384	17,792	13,620	W	24,237
July 1993 . . . . .	144	290	24,840	13,886	W	19,396
August 1992 . . . . .	W	409	21,019	16,169	W	19,989
<b>New Mexico</b>						
August 1993 . . . . .	W	W	3,904	743	W	10,663
July 1993 . . . . .	W	W	4,119	769	4,986	10,474
August 1992 . . . . .	W	W	3,882	726	5,998	9,666
<b>Texas</b>						
August 1993 . . . . .	219	3,776	157,330	70,709	8,821	247,178
July 1993 . . . . .	295	3,822	177,811	62,045	11,075	249,237
August 1992 . . . . .	279	3,049	170,066	68,948	16,450	279,877
<b>PAD District IV Total</b>						
August 1993 . . . . .	378	1,607	46,809	5,415	NA	25,573
July 1993 . . . . .	382	1,649	48,523	5,449	NA	20,921
August 1992 . . . . .	435	1,718	42,024	4,828	W	22,705
<b>Colorado</b>						
August 1993 . . . . .	W	659	27,830	3,186	42	7,805
July 1993 . . . . .	W	671	28,250	3,108	NA	6,543
August 1992 . . . . .	W	622	22,050	2,942	33	6,766
<b>Idaho</b>						
August 1993 . . . . .	W	165	1,480	317	W	73
July 1993 . . . . .	W	121	1,508	253	W	89
August 1992 . . . . .	W	W	1,476	607	W	114
<b>Montana</b>						
August 1993 . . . . .	W	W	2,134	W	NA	8,885
July 1993 . . . . .	W	W	1,926	W	W	4,644
August 1992 . . . . .	W	W	2,094	W	W	5,923

See footnotes at end of table

**Table 44. Refiner Volumes of Aviation Fuels and Propane  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline		Kerosene-Type Jet Fuel		Propane (Consumer Grade)	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Utah</b>						
August 1993 . . . . .	46	583	15,034	1,580	NA	2,063
July 1993 . . . . .	20	718	16,556	1,670	NA	2,264
August 1992 . . . . .	23	734	16,054	825	W	2,263
<b>Wyoming</b>						
August 1993 . . . . .	W	W	331	W	75	8,746
July 1993 . . . . .	W	W	283	W	174	7,380
August 1992 . . . . .	W	W	350	W	216	7,639
<b>PAD District V Total</b>						
August 1993 . . . . .	1,389	7,814	393,121	67,418	NA	48,715
July 1993 . . . . .	1,455	8,042	383,904	68,231	NA	43,648
August 1992 . . . . .	1,651	9,034	381,592	77,952	8,392	50,925
<b>Alaska</b>						
August 1993 . . . . .	W	1,820	48,171	W	NA	W
July 1993 . . . . .	W	2,637	45,840	W	NA	W
August 1992 . . . . .	W	W	43,529	W	W	W
<b>Arizona</b>						
August 1993 . . . . .	W	584	17,210	3,435	NA	NA
July 1993 . . . . .	W	478	13,836	1,432	NA	581
August 1992 . . . . .	W	W	17,545	1,551	W	5,641
<b>California</b>						
August 1993 . . . . .	762	3,344	219,092	47,324	W	32,179
July 1993 . . . . .	730	3,279	218,838	43,532	W	28,904
August 1992 . . . . .	879	3,723	209,640	54,430	W	30,011
<b>Hawaii</b>						
August 1993 . . . . .	W	W	27,959	W	W	W
July 1993 . . . . .	W	W	29,182	W	W	W
August 1992 . . . . .	W	W	33,372	W	W	W
<b>Nevada</b>						
August 1993 . . . . .	W	W	14,473	3,103	NA	NA
July 1993 . . . . .	W	W	13,295	2,189	NA	W
August 1992 . . . . .	W	W	11,997	2,340	W	W
<b>Oregon</b>						
August 1993 . . . . .	W	716	13,411	1,770	W	288
July 1993 . . . . .	W	640	12,779	1,372	W	325
August 1992 . . . . .	-	830	13,147	717	W	78
<b>Washington</b>						
August 1993 . . . . .	100	1,055	52,805	3,482	NA	13,202
July 1993 . . . . .	156	W	50,134	12,998	NA	11,400
August 1992 . . . . .	W	1,636	52,962	12,891	W	12,772

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

**Table 45. Refiner Volumes of Kerosene and Distillates  
by PAD District and State**  
(Thousand Gallons)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Total</b>						
August 1993 .....	3,180	32,590	7,674	31,863	729,334	3,072,019
July 1993 .....	2,666	25,494	8,271	19,559	717,787	2,877,731
August 1992 .....	3,863	33,046	7,733	33,610	750,416	2,789,547
<b>PAD District I Total</b>						
August 1993 .....	2,207	14,803	635	4,030	220,003	772,188
July 1993 .....	1,905	11,024	992	1,621	212,865	776,142
August 1992 .....	3,392	14,280	1,218	2,880	221,455	739,773
<b>Subdistrict IA Total</b>						
August 1993 .....	W	1,126	76	W	13,934	61,242
July 1993 .....	W	618	310	W	10,931	59,064
August 1992 .....	114	1,252	W	495	10,433	93,876
<b>Connecticut</b>						
August 1993 .....	W	350	W	W	3,525	26,409
July 1993 .....	W	W	W	W	3,098	20,364
August 1992 .....	W	W	W	W	2,608	35,014
<b>Maine</b>						
August 1993 .....	-	257	-	W	W	5,892
July 1993 .....	-	W	W	W	862	7,256
August 1992 .....	-	423	-	215	791	8,956
<b>Massachusetts</b>						
August 1993 .....	W	W	W	W	7,456	17,408
July 1993 .....	W	W	W	W	5,120	19,031
August 1992 .....	W	465	-	W	5,415	31,145
<b>New Hampshire</b>						
August 1993 .....	W	W	W	-	672	W
July 1993 .....	-	W	W	-	W	W
August 1992 .....	-	W	W	W	451	11,167
<b>Rhode Island</b>						
August 1993 .....	-	W	-	-	1,096	7,220
July 1993 .....	-	-	W	-	1,040	7,568
August 1992 .....	-	-	W	W	800	5,414
<b>Vermont</b>						
August 1993 .....	-	W	-	W	W	W
July 1993 .....	-	W	-	-	W	W
August 1992 .....	-	W	-	-	368	2,180
<b>Subdistrict IB Total</b>						
August 1993 .....	W	7,118	161	1,047	73,255	395,183
July 1993 .....	W	6,724	170	894	79,597	413,255
August 1992 .....	3,198	6,822	W	1,677	71,068	361,765
<b>Delaware</b>						
August 1993 .....	-	W	-	W	1,079	14,344
July 1993 .....	-	W	W	W	1,165	15,637
August 1992 .....	-	W	W	W	W	W
<b>District of Columbia</b>						
August 1993 .....	-	W	-	-	NA	1,983
July 1993 .....	-	-	-	-	47	1,723
August 1992 .....	-	-	-	-	W	W
<b>Maryland</b>						
August 1993 .....	11	658	W	-	9,636	23,922
July 1993 .....	W	W	W	W	8,946	27,632
August 1992 .....	W	W	W	W	8,517	17,536
<b>New Jersey</b>						
August 1993 .....	W	2,482	W	W	16,594	139,541
July 1993 .....	W	3,655	W	W	16,177	161,726
August 1992 .....	W	684	W	305	12,385	132,877
<b>New York</b>						
August 1993 .....	W	1,186	W	W	17,316	88,914
July 1993 .....	W	1,439	W	188	18,694	72,066
August 1992 .....	1,150	1,015	W	534	17,399	75,598
<b>Pennsylvania</b>						
August 1993 .....	106	2,671	59	612	28,575	126,459
July 1993 .....	54	1,358	49	143	34,568	133,671
August 1992 .....	143	4,438	73	800	31,149	122,195
<b>Subdistrict IC Total</b>						
August 1993 .....	249	6,559	398	W	132,814	315,783
July 1993 .....	253	3,682	512	W	122,337	303,823
August 1992 .....	80	6,206	509	708	139,954	284,132

See footnotes at end of table.

**Table 45. Refiner Volumes of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Florida</b>						
August 1993	15	491	W	W	48,935	75,544
July 1993	W	407	W	W	40,028	75,026
August 1992	9	376	W	W	44,665	76,916
<b>Georgia</b>						
August 1993	24	305	-	W	24,745	67,760
July 1993	17	291	W	W	23,899	68,150
August 1992	11	377	W	W	28,792	53,110
<b>North Carolina</b>						
August 1993	W	2,813	W	W	19,151	64,952
July 1993	6	1,591	NA	W	20,370	61,606
August 1992	11	2,395	29	406	21,338	55,447
<b>South Carolina</b>						
August 1993	10	1,216	W	-	11,478	29,700
July 1993	3	W	-	-	10,349	25,775
August 1992	10	1,189	W	-	11,812	22,698
<b>Virginia</b>						
August 1993	188	1,545	70	380	16,200	61,674
July 1993	162	748	W	122	15,910	59,316
August 1992	24	1,632	165	146	21,704	60,075
<b>West Virginia</b>						
August 1993	W	189	W	42	12,305	16,153
July 1993	W	W	W	W	11,781	13,950
August 1992	15	237	W	34	11,643	15,886
<b>PAD District II Total</b>						
August 1993	830	5,535	4,535	16,033	261,758	908,100
July 1993	657	2,471	4,193	11,644	256,996	810,909
August 1992	328	4,573	4,159	18,164	255,024	778,278
<b>Illinois</b>						
August 1993	122	W	W	1,113	21,564	99,502
July 1993	60	138	W	725	19,991	86,123
August 1992	95	W	W	620	22,792	86,437
<b>Indiana</b>						
August 1993	17	332	W	1,172	35,278	89,917
July 1993	W	230	W	404	35,873	67,492
August 1992	8	406	11	934	33,936	65,839
<b>Iowa</b>						
August 1993	-	105	W	342	8,584	47,704
July 1993	-	W	W	415	8,232	44,639
August 1992	-	W	W	754	8,356	43,882
<b>Kansas</b>						
August 1993	-	W	W	386	10,383	72,214
July 1993	-	W	-	394	13,557	65,092
August 1992	-	63	W	1,379	12,517	62,749
<b>Kentucky</b>						
August 1993	20	422	W	304	24,767	47,255
July 1993	10	182	W	173	21,997	40,988
August 1992	13	436	124	325	23,721	36,605
<b>Michigan</b>						
August 1993	7	596	W	4,741	18,430	64,693
July 1993	9	387	W	4,489	17,769	58,998
August 1992	15	661	W	3,339	17,746	58,589
<b>Minnesota</b>						
August 1993	W	199	W	1,326	10,427	51,926
July 1993	W	66	W	574	11,459	47,480
August 1992	W	W	W	1,099	9,875	48,077
<b>Missouri</b>						
August 1993	-	W	W	611	13,705	48,460
July 1993	-	67	W	415	8,056	48,172
August 1992	-	67	W	638	10,906	50,559
<b>Nebraska</b>						
August 1993	-	W	-	296	10,341	32,775
July 1993	-	W	-	359	W	32,173
August 1992	-	W	W	625	W	30,538
<b>North Dakota</b>						
August 1993	-	W	W	325	W	20,634
July 1993	-	-	-	246	W	15,935
August 1992	W	W	W	412	W	21,902

See footnotes at end of table.



**Table 45. Refiner Volumes of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Ohio</b>						
August 1993 .....	625	2,454	22	491	55,452	83,612
July 1993 .....	551	994	26	292	54,856	73,451
August 1992 .....	177	1,641	47	745	54,146	64,527
<b>Oklahoma</b>						
August 1993 .....	-	W	W	2,591	12,843	95,755
July 1993 .....	W	W	W	W	16,368	78,804
August 1992 .....	-	22	W	W	13,694	73,811
<b>South Dakota</b>						
August 1993 .....	-	33	-	515	W	22,716
July 1993 .....	-	-	-	313	317	18,342
August 1992 .....	-	W	W	696	W	19,505
<b>Tennessee</b>						
August 1993 .....	28	645	W	317	26,050	67,661
July 1993 .....	10	269	W	W	25,815	72,641
August 1992 .....	W	783	W	W	27,894	62,382
<b>Wisconsin</b>						
August 1993 .....	W	47	W	1,503	8,412	63,276
July 1993 .....	W	34	W	872	9,097	60,580
August 1992 .....	W	73	W	1,266	7,228	52,876
<b>PAD District III Total</b>						
August 1993 .....	143	W	W	3,758	120,574	805,632
July 1993 .....	104	11,728	W	1,436	124,935	725,712
August 1992 .....	143	13,776	W	1,417	124,915	701,417
<b>Alabama</b>						
August 1993 .....	W	150	W	W	13,664	47,044
July 1993 .....	W	116	W	W	13,284	39,159
August 1992 .....	W	129	W	W	14,430	39,031
<b>Arkansas</b>						
August 1993 .....	-	204	-	W	10,583	42,455
July 1993 .....	-	358	-	W	9,280	51,698
August 1992 .....	-	148	-	-	11,060	39,192
<b>Louisiana</b>						
August 1993 .....	W	W	-	W	13,339	175,943
July 1993 .....	W	W	-	W	15,536	142,564
August 1992 .....	W	5,476	-	419	16,312	106,059
<b>Mississippi</b>						
August 1993 .....	W	W	-	W	7,944	101,716
July 1993 .....	W	W	W	W	8,113	85,596
August 1992 .....	W	W	W	W	9,539	74,721
<b>New Mexico</b>						
August 1993 .....	-	48	-	33	6,291	20,348
July 1993 .....	-	94	-	31	7,862	20,896
August 1992 .....	-	W	W	59	7,331	21,596
<b>Texas</b>						
August 1993 .....	W	335	W	1,695	68,753	418,126
July 1993 .....	W	377	W	653	70,860	385,801
August 1992 .....	W	2,578	W	706	66,243	420,818
<b>PAD District IV Total</b>						
August 1993 .....	-	W	W	2,181	31,910	127,910
July 1993 .....	-	67	W	1,684	28,955	112,081
August 1992 .....	-	W	W	2,367	30,900	116,871
<b>Colorado</b>						
August 1993 .....	-	W	W	580	7,245	34,491
July 1993 .....	-	W	W	447	9,238	32,915
August 1992 .....	-	W	W	919	9,117	31,082
<b>Idaho</b>						
August 1993 .....	-	W	-	632	W	20,805
July 1993 .....	-	-	-	515	W	14,827
August 1992 .....	-	-	-	419	W	20,810
<b>Montana</b>						
August 1993 .....	-	-	-	605	W	22,413
July 1993 .....	-	-	-	404	W	19,180
August 1992 .....	-	-	-	594	W	21,737

See footnotes at end of table.

**Table 45. Refiner Volumes of Kerosene and Distillates  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene		No. 1 Distillate		No. 2 Distillate	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Utah</b>						
August 1993	-	W	W	217	7,439	29,363
July 1993	-	W	W	207	6,878	26,489
August 1992	-	W	W	265	7,562	24,715
<b>Wyoming</b>						
August 1993	-	-	W	167	10,163	20,838
July 1993	-	-	W	111	8,250	18,671
August 1992	-	-	W	170	8,302	18,527
<b>PAD District V Total</b>						
August 1993	-	597	1,205	5,661	95,090	458,189
July 1993	-	204	1,824	3,174	93,036	452,886
August 1992	-	W	1,019	8,782	118,122	453,208
<b>Alaska</b>						
August 1993	-	-	283	4,090	3,720	27,344
July 1993	-	-	1,091	2,107	3,837	20,247
August 1992	-	-	473	6,911	4,142	19,779
<b>Arizona</b>						
August 1993	-	-	-	48	10,077	27,667
July 1993	-	W	-	W	9,813	27,684
August 1992	-	W	W	53	11,639	21,791
<b>California</b>						
August 1993	-	W	W	392	50,358	220,232
July 1993	-	147	W	284	45,957	237,806
August 1992	-	54	353	281	57,828	247,273
<b>Hawaii</b>						
August 1993	-	-	W	W	9,222	5,278
July 1993	-	-	W	W	10,629	5,338
August 1992	-	-	W	W	11,509	5,352
<b>Nevada</b>						
August 1993	-	-	W	W	2,914	20,515
July 1993	-	-	W	W	2,715	18,174
August 1992	-	-	W	105	3,129	18,613
<b>Oregon</b>						
August 1993	-	-	W	293	12,192	59,975
July 1993	-	-	W	193	10,700	54,137
August 1992	-	108	W	475	14,006	52,670
<b>Washington</b>						
August 1993	-	W	W	742	6,607	97,178
July 1993	-	W	W	503	9,385	89,500
August 1992	-	179	W	668	15,869	87,730

Dashes (-) = No data reported.

NA = Not available

W = Withheld to avoid disclosure of individual company data

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.

Note: PAD District and U.S. totals equal the sum of the volumes for all States. In certain PAD Districts, however, volumes are not shown for every State.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"

**Table 46. Refiner No. 4 and Residual Fuel Oil Volumes by PAD District**  
(Thousand Gallons)

Geographic Area Month	No. 4 Fuel		Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Total Residual	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Total</b>								
August 1993 . . . . .	11,488	3,365	189,461	134,455	317,286	190,573	506,747	325,020
July 1993 .. . . .	14,850	4,613	164,374	114,335	303,841	214,165	468,215	328,500
August 1992 . . . . .	9,345	5,803	201,543	123,013	383,324	266,600	584,867	389,613
<b>PAD District I Total</b>								
August 1993 . . . . .	7,926	2,418	158,288	62,534	141,271	14,642	299,559	77,176
July 1993 .... .	W	2,466	133,340	57,737	133,982	10,671	267,322	68,408
August 1992 . . . . .	4,941	2,856	163,171	50,189	157,953	58,146	321,124	108,335
<b>Subdistrict IA Total</b>								
August 1993 . . . . .	W	W	W	W	W	-	59,294	W
July 1993 .. . . .	380	W	W	W	W	W	45,253	W
August 1992 .. . . .	547	W	14,133	W	23,787	W	37,920	27,904
<b>Subdistrict IB Total</b>								
August 1993 .. . . .	W	1,827	84,522	54,278	41,181	4,971	125,703	59,249
July 1993 . . . . .	W	1,820	86,067	56,087	43,889	5,365	129,956	61,452
August 1992 . . . . .	3,475	2,389	82,942	43,442	30,607	30,863	113,549	74,305
<b>Subdistrict IC Total</b>								
August 1993 .... .	673	W	W	W	W	9,671	114,562	W
July 1993 .... .	433	W	W	W	W	W	92,113	W
August 1992 . . . . .	919	W	66,096	W	103,559	W	169,655	6,126
<b>PAD District II Total</b>								
August 1993 .. . . .	W	W	W	W	W	W	4,964	19,918
July 1993 .. . . .	W	W	W	W	W	W	3,599	23,104
August 1992 .. . . .	W	W	W	4,459	W	20,068	W	24,527
<b>PAD District III Total</b>								
August 1993 .. . . .	W	-	-	51,721	70,221	119,075	70,221	170,796
July 1993 .. . . .	W	-	-	44,066	79,033	136,402	79,033	180,468
August 1992 .. . . .	W	W	-	59,021	135,284	83,240	135,284	142,261
<b>PAD District IV Total</b>								
August 1993 . . . . .	-	-	-	W	W	W	W	3,648
July 1993 .. . . .	-	-	-	W	W	W	W	3,004
August 1992 .. . . .	-	-	W	W	W	W	W	5,905
<b>PAD District V Total</b>								
August 1993 .. . . .	W	W	W	16,775	100,861	36,715	W	53,490
July 1993 .. . . .	-	W	W	W	87,553	W	W	53,516
August 1992 .. . . .	W	W	37,302	W	87,928	W	125,230	108,585

Dashes (-) = No data reported

W = Withheld to avoid disclosure of individual company data.

Note. Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report"



**Prime Supplier  
Sales Volumes  
of Petroleum  
Products  
for Local  
Consumption**



**Table 47. Prime Supplier Sales Volumes of Motor Gasoline by Grade,  
PAD District and State**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular	Unleaded Regular	Unleaded Midgrade	Premium	Total
<b>U.S. Total</b>					
August 1993 . . . . .	123,417	6,909,888	1,247,568	2,099,979	10,380,851
July 1993 . . . . .	120,357	6,974,822	1,262,783	2,107,761	10,465,523
August 1992 . . . . .	157,138	6,942,358	1,206,292	1,950,818	10,256,606
<b>PAD District I Total</b>					
August 1993 . . . . .	198	2,140,948	543,431	933,370	3,617,947
July 1993 . . . . .	208	2,171,175	552,118	942,590	3,666,091
August 1992 . . . . .	290	2,055,019	538,117	862,821	3,456,247
<b>Subdistrict IA Total</b>					
August 1993 . . . . .	-	315,086	74,853	125,138	515,077
July 1993 . . . . .	-	315,185	76,074	122,273	513,532
August 1992 . . . . .	-	311,094	71,084	115,244	497,422
<b>Connecticut</b>					
August 1993 . . . . .	-	63,967	19,584	30,340	113,891
July 1993 . . . . .	-	66,930	20,182	31,173	118,285
August 1992 . . . . .	-	75,758	19,706	29,973	125,437
<b>Maine</b>					
August 1993 . . . . .	-	51,064	9,512	14,673	75,249
July 1993 . . . . .	-	50,189	9,804	13,718	73,691
August 1992 . . . . .	-	49,490	9,349	14,008	72,847
<b>Massachusetts</b>					
August 1993 . . . . .	-	128,637	30,744	53,974	213,355
July 1993 . . . . .	-	126,851	29,823	51,344	207,818
August 1992 . . . . .	-	116,659	26,507	46,457	189,623
<b>New Hampshire</b>					
August 1993 . . . . .	-	27,090	5,973	8,523	41,586
July 1993 . . . . .	-	26,249	6,080	8,368	40,697
August 1992 . . . . .	-	25,838	5,763	7,752	39,373
<b>Rhode Island</b>					
August 1993 . . . . .	-	29,481	6,067	12,755	48,303
July 1993 . . . . .	-	30,141	7,497	13,035	50,673
August 1992 . . . . .	-	29,659	7,098	12,550	49,307
<b>Vermont</b>					
August 1993 . . . . .	-	14,847	2,973	4,873	22,693
July 1993 . . . . .	-	14,845	2,888	4,635	22,368
August 1992 . . . . .	-	13,690	2,641	4,504	20,835
<b>Subdistrict IB Total</b>					
August 1993 . . . . .	142	840,615	200,655	415,150	1,456,582
July 1993 . . . . .	W	858,196	W	423,288	1,485,573
August 1992 . . . . .	107	799,454	202,095	397,134	1,398,790
<b>Delaware</b>					
August 1993 . . . . .	-	21,813	8,162	7,556	37,531
July 1993 . . . . .	-	23,452	7,888	7,000	38,338
August 1992 . . . . .	-	18,721	7,152	6,782	32,655
<b>District of Columbia</b>					
August 1993 . . . . .	-	4,620	2,740	6,371	13,731
July 1993 . . . . .	-	4,793	2,911	6,561	14,265
August 1992 . . . . .	-	4,892	2,848	6,245	13,985
<b>Maryland</b>					
August 1993 . . . . .	-	89,897	34,071	48,331	172,299
July 1993 . . . . .	-	91,475	34,839	48,833	175,147
August 1992 . . . . .	-	87,334	35,095	44,200	166,629
<b>New Jersey</b>					
August 1993 . . . . .	-	171,354	41,710	110,545	323,609
July 1993 . . . . .	-	180,460	42,943	117,618	341,021
August 1992 . . . . .	-	171,747	42,060	122,926	336,733
<b>New York</b>					
August 1993 . . . . .	113	276,737	52,807	142,626	472,283
July 1993 . . . . .	116	279,878	53,112	143,001	475,907
August 1992 . . . . .	W	249,924	W	124,099	425,025
<b>Pennsylvania</b>					
August 1993 . . . . .	29	276,194	61,165	99,721	437,109
July 1993 . . . . .	W	278,338	W	100,275	440,895
August 1992 . . . . .	W	266,836	W	92,882	423,763

See footnotes at end of table.

**Table 47. Prime Supplier Sales Volumes of Motor Gasoline by Grade,  
PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular	Unleaded Regular	Unleaded Midgrade	Premium	Total
<b>Subdistrict IC Total</b>					
August 1993 . . . . .	56	985,247	267,923	393,082	1,646,308
July 1993 . . . . .	W	997,794	W	397,029	1,666,886
August 1992 . . . . .	183	944,471	264,938	350,443	1,560,035
<b>Florida</b>					
August 1993 . . . . .	-	283,866	90,720	144,723	519,409
July 1993 . . . . .	-	287,810	90,937	145,370	524,117
August 1992 . . . . .	-	275,086	88,091	133,975	497,152
<b>Georgia</b>					
August 1993 . . . . .	W	196,465	W	71,203	316,313
July 1993 . . . . .	W	200,179	W	73,078	322,534
August 1992 . . . . .	W	185,807	W	62,359	297,428
<b>North Carolina</b>					
August 1993 . . . . .	-	195,812	45,422	63,432	304,666
July 1993 . . . . .	-	197,996	46,122	63,829	307,947
August 1992 . . . . .	-	189,161	45,574	55,016	289,751
<b>South Carolina</b>					
August 1993 . . . . .	-	110,106	25,499	32,068	167,673
July 1993 . . . . .	-	110,454	25,754	33,082	169,290
August 1992 . . . . .	-	102,140	24,949	26,987	154,076
<b>Virginia</b>					
August 1993 . . . . .	W	165,901	W	73,184	288,531
July 1993 . . . . .	-	168,561	51,208	73,131	292,900
August 1992 . . . . .	-	158,570	48,435	63,201	270,206
<b>West Virginia</b>					
August 1993 . . . . .	W	32,997	W	8,472	49,716
July 1993 . . . . .	W	32,794	W	8,539	50,198
August 1992 . . . . .	W	33,707	W	8,905	51,422
<b>PAD District II Total</b>					
August 1993 . . . . .	5,814	2,299,707	299,261	473,372	3,078,154
July 1993 . . . . .	5,870	2,330,458	307,178	473,264	3,116,771
August 1992 . . . . .	9,898	2,282,373	298,539	423,320	3,014,130
<b>Illinois</b>					
August 1993 . . . . .	W	274,004	W	71,443	393,361
July 1993 . . . . .	W	274,271	W	69,039	392,256
August 1992 . . . . .	W	285,444	W	69,216	404,248
<b>Indiana</b>					
August 1993 . . . . .	W	184,773	W	37,436	231,986
July 1993 . . . . .	W	186,677	W	38,342	236,234
August 1992 . . . . .	W	169,539	W	32,125	232,760
<b>Iowa</b>					
August 1993 . . . . .	W	114,371	W	9,690	125,770
July 1993 . . . . .	W	110,535	W	9,187	121,479
August 1992 . . . . .	W	111,056	W	9,758	123,783
<b>Kansas</b>					
August 1993 . . . . .	-	106,713	4,539	13,390	124,642
July 1993 . . . . .	W	115,025	W	13,437	132,734
August 1992 . . . . .	37	108,729	4,456	12,541	125,763
<b>Kentucky</b>					
August 1993 . . . . .	W	112,182	W	32,196	168,119
July 1993 . . . . .	W	114,042	W	33,111	172,389
August 1992 . . . . .	W	109,802	W	27,957	161,582
<b>Michigan</b>					
August 1993 . . . . .	1,072	298,784	39,754	67,403	407,013
July 1993 . . . . .	W	308,380	W	67,008	417,978
August 1992 . . . . .	1,994	292,046	39,678	58,455	392,173
<b>Minnesota</b>					
August 1993 . . . . .	137	156,210	11,989	17,261	185,577
July 1993 . . . . .	144	151,011	11,667	16,289	179,111
August 1992 . . . . .	W	146,378	W	16,725	174,673
<b>Missouri</b>					
August 1993 . . . . .	NA	171,252	20,280	35,983	227,527
July 1993 . . . . .	W	175,718	W	36,208	232,858
August 1992 . . . . .	43	161,441	20,785	31,755	214,024

See footnotes at end of table



**Table 47. Prime Supplier Sales Volumes of Motor Gasoline by Grade,  
PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular	Unleaded Regular	Unleaded Midgrade	Premium	Total
<b>Nebraska</b>					
August 1993 . . . . .	184	64,265	284	4,896	69,629
July 1993 . . . . .	233	63,578	285	4,299	68,395
August 1992 . . . . .	318	58,933	2,165	3,734	65,150
<b>North Dakota</b>					
August 1993 . . . . .	W	32,891	W	1,940	36,866
July 1993 . . . . .	W	30,108	W	1,890	33,733
August 1992 . . . . .	W	28,609	W	1,877	32,971
<b>Ohio</b>					
August 1993 . . . . .	W	295,457	W	66,279	423,150
July 1993 . . . . .	W	305,776	W	66,884	434,957
August 1992 . . . . .	W	301,873	W	60,230	417,752
<b>Oklahoma</b>					
August 1993 . . . . .	W	149,081	W	24,984	180,615
July 1993 . . . . .	W	146,713	W	26,556	179,976
August 1992 . . . . .	1,484	160,988	6,844	22,157	191,473
<b>South Dakota</b>					
August 1993 . . . . .	W	36,412	W	3,406	41,013
July 1993 . . . . .	W	37,156	W	3,204	41,456
August 1992 . . . . .	W	37,010	W	2,909	40,937
<b>Tennessee</b>					
August 1993 . . . . .	-	163,846	39,881	58,826	262,554
July 1993 . . . . .	-	166,341	40,970	59,174	266,485
August 1992 . . . . .	-	153,472	39,538	48,288	241,298
<b>Wisconsin</b>					
August 1993 . . . . .	W	159,466	W	28,238	200,312
July 1993 . . . . .	W	165,129	W	28,638	206,729
August 1992 . . . . .	W	157,053	W	25,593	195,563
<b>PAD District III Total</b>					
August 1993 . . . . .	8,645	1,008,881	199,057	278,188	1,494,771
July 1993 . . . . .	8,759	1,024,038	200,468	285,949	1,519,214
August 1992 . . . . .	14,871	1,140,287	193,154	263,513	1,611,825
<b>Alabama</b>					
August 1993 . . . . .	-	110,153	23,748	36,347	170,248
July 1993 . . . . .	-	113,149	24,116	37,504	174,769
August 1992 . . . . .	-	109,586	23,804	31,444	164,834
<b>Arkansas</b>					
August 1993 . . . . .	W	94,432	W	22,738	129,707
July 1993 . . . . .	W	102,317	W	26,594	141,032
August 1992 . . . . .	W	83,989	W	19,115	116,249
<b>Louisiana</b>					
August 1993 . . . . .	-	102,837	25,821	40,339	168,997
July 1993 . . . . .	-	101,373	26,896	41,027	169,296
August 1992 . . . . .	W	118,336	W	39,905	184,431
<b>Mississippi</b>					
August 1993 . . . . .	-	73,562	15,432	22,308	111,302
July 1993 . . . . .	-	81,727	15,467	22,172	119,366
August 1992 . . . . .	-	87,800	13,603	19,562	120,965
<b>New Mexico</b>					
August 1993 . . . . .	7,079	54,431	2,581	7,335	71,426
July 1993 . . . . .	6,868	52,723	2,579	7,024	69,194
August 1992 . . . . .	9,226	50,550	1,291	7,086	68,153
<b>Texas</b>					
August 1993 . . . . .	W	573,466	W	149,121	843,091
July 1993 . . . . .	W	572,749	W	151,628	845,557
August 1992 . . . . .	5,594	690,026	115,172	146,401	957,193
<b>PAD District IV Total</b>					
August 1993 . . . . .	29,045	247,384	25,024	59,259	360,722
July 1993 . . . . .	27,378	243,965	24,358	55,818	351,519
August 1992 . . . . .	40,523	233,759	18,883	52,608	345,771
<b>Colorado</b>					
August 1993 . . . . .	2,574	106,776	19,246	23,930	152,526
July 1993 . . . . .	2,692	108,392	18,773	22,856	152,713
August 1992 . . . . .	8,543	100,542	14,931	23,871	147,887

See footnotes at end of table.

**Table 47. Prime Supplier Sales Volumes of Motor Gasoline by Grade,  
PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Leaded Regular	Unleaded Regular	Unleaded Midgrade	Premium	Total
<b>Idaho</b>					
August 1993 . . . . .	W	33,078	W	6,328	49,394
July 1993 . . . . .	W	34,103	W	6,093	50,233
August 1992 . . . . .	10,782	31,385	-	4,773	46,940
<b>Montana</b>					
August 1993 . . . . .	8,047	32,748	-	7,276	48,071
July 1993 . . . . .	6,072	29,684	-	6,094	41,850
August 1992 . . . . .	9,483	31,901	-	6,695	48,079
<b>Utah</b>					
August 1993 . . . . .	5,782	52,767	5,201	16,717	80,467
July 1993 . . . . .	5,818	48,444	4,875	15,716	74,853
August 1992 . . . . .	W	50,013	W	13,235	75,286
<b>Wyoming</b>					
August 1993 . . . . .	W	22,025	W	5,008	30,264
July 1993 . . . . .	W	23,342	W	5,059	31,870
August 1992 . . . . .	W	19,918	W	4,032	27,579
<b>PAD District V Total</b>					
August 1993 . . . . .	79,715	1,212,958	180,794	355,790	1,829,257
July 1993 . . . . .	78,142	1,204,885	178,661	350,140	1,811,928
August 1992 . . . . .	91,556	1,230,920	157,599	348,558	1,828,633
<b>Alaska</b>					
August 1993 . . . . .	1,171	19,302	-	2,298	22,771
July 1993 . . . . .	1,213	22,260	-	2,671	26,144
August 1992 . . . . .	1,525	20,411	-	2,469	24,405
<b>Arizona</b>					
August 1993 . . . . .	15,840	93,427	705	21,858	131,830
July 1993 . . . . .	16,827	90,623	778	21,690	129,718
August 1992 . . . . .	18,909	92,854	729	19,522	132,014
<b>California</b>					
August 1993 . . . . .	W	788,683	169,434	W	1,211,821
July 1993 . . . . .	W	791,766	W	251,056	1,210,283
August 1992 . . . . .	W	826,102	148,407	W	1,231,901
<b>Hawaii</b>					
August 1993 . . . . .	-	17,183	3,681	9,964	30,828
July 1993 . . . . .	-	17,320	3,682	10,212	31,214
August 1992 . . . . .	-	17,518	3,334	9,833	30,685
<b>Nevada</b>					
August 1993 . . . . .	183	50,145	6,786	11,986	69,100
July 1993 . . . . .	175	51,279	6,533	11,645	69,632
August 1992 . . . . .	700	47,147	5,018	10,256	63,121
<b>Oregon</b>					
August 1993 . . . . .	W	90,390	W	16,419	129,652
July 1993 . . . . .	W	83,745	W	14,705	121,078
August 1992 . . . . .	W	84,860	W	15,538	126,267
<b>Washington</b>					
August 1993 . . . . .	39,714	153,827	W	W	233,255
July 1993 . . . . .	W	147,992	W	38,161	223,859
August 1992 . . . . .	44,639	142,028	W	W	220,240

Dashes (-) = No data reported.

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption."

**Table 48. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline	Kerosene- Type Jet Fuel	Naphtha- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Content Less Than or Equal to 1 Percent	Sulfur Content Greater Than 1 Percent	Total Residual
<b>U.S. Total</b>							
August 1993 . . .	32,138	1,612,524	128,140	871,944	380,338	612,613	992,951
July 1993 . . .	33,586	1,589,659	168,492	751,605	373,482	662,985	1,036,467
August 1992 . . .	33,395	1,595,056	185,677	882,108	346,350	721,062	1,067,412
<b>PAD District I Total</b>							
August 1993 . . .	7,101	413,179	W	154,428	293,283	299,926	593,209
July 1993 . . .	7,460	414,928	W	117,362	291,037	355,502	646,639
August 1992 . . .	7,107	396,839	24,654	152,183	236,183	287,885	524,048
<b>Subdistrict IA Total</b>							
August 1993 . . .	1,221	38,940	W	10,370	56,110	58,250	114,360
July 1993 . . .	1,151	38,982	W	10,724	35,288	71,037	106,325
August 1992 . . .	1,076	36,865	W	12,102	21,500	57,309	78,809
<b>Connecticut</b>							
August 1993 . . .	139	7,130	W	NA	19,779	-	19,779
July 1993 . . .	164	7,418	-	2,191	17,122	-	17,122
August 1992 . . .	128	6,434	W	2,796	W	W	10,523
<b>Maine</b>							
August 1993 . . .	W	W	-	1,317	3,573	16,012	19,585
July 1993 . . .	W	W	W	1,173	5,639	24,457	30,096
August 1992 . . .	W	5,172	-	1,309	4,074	17,467	21,541
<b>Massachusetts</b>							
August 1993 . . .	276	24,997	-	3,234	28,281	31,032	59,313
July 1993 . . .	W	24,967	W	3,562	10,063	37,235	47,298
August 1992 . . .	240	22,463	-	3,760	5,287	38,250	41,537
<b>New Hampshire</b>							
August 1993 . . .	77	661	-	1,596	W	W	11,907
July 1993 . . .	65	777	-	2,185	W	W	9,554
August 1992 . . .	65	W	-	2,254	1,063	2,535	3,598
<b>Rhode Island</b>							
August 1993 . . .	W	1,755	-	797	W	-	W
July 1993 . . .	W	1,601	-	807	W	-	W
August 1992 . . .	W	1,764	-	707	876	-	876
<b>Vermont</b>							
August 1993 . . .	74	W	-	1,084	W	W	W
July 1993 . . .	48	W	-	806	W	W	W
August 1992 . . .	72	W	-	1,276	W	W	734
<b>Subdistrict IB Total</b>							
August 1993 . . .	1,708	211,513	W	41,837	171,035	86,099	257,134
July 1993 . . .	2,043	214,938	W	37,558	201,076	90,761	291,837
August 1992 . . .	1,553	214,020	W	44,489	134,816	94,516	229,332
<b>Delaware</b>							
August 1993 . . .	W	W	W	W	W	1,670	W
July 1993 . . .	W	W	W	W	21,592	W	W
August 1992 . . .	W	210	W	W	W	W	13,113
<b>District of Columbia</b>							
August 1993 . . .	W	W	-	-	W	-	W
July 1993 . . .	W	W	-	-	W	-	W
August 1992 . . .	W	-	-	-	W	-	W
<b>Maryland</b>							
August 1993 . . .	174	5,669	W	W	19,983	20,275	40,258
July 1993 . . .	205	7,119	W	W	W	W	46,813
August 1992 . . .	206	8,207	-	W	W	W	W
<b>New Jersey</b>							
August 1993 . . .	730	154,454	W	5,489	37,077	11,007	48,084
July 1993 . . .	596	158,100	W	5,247	29,146	8,430	37,576
August 1992 . . .	503	159,601	-	9,113	28,367	31,300	59,667
<b>New York</b>							
August 1993 . . .	296	13,942	-	9,517	51,845	41,000	92,845
July 1993 . . .	767	13,556	W	9,025	79,958	35,711	115,669
August 1992 . . .	360	12,081	W	10,464	79,376	35,362	114,738
<b>Pennsylvania</b>							
August 1993 . . .	470	35,786	-	19,881	42,218	11,847	54,165
July 1993 . . .	402	35,077	-	19,740	47,749	20,585	68,334
August 1992 . . .	460	33,921	W	19,143	16,229	18,730	34,959

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline	Kerosene- Type Jet Fuel	Naphtha- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Content Less Than or Equal to 1 Percent	Sulfur Content Greater Than 1 Percent	Total Residual
<b>Subdistrict IC Total</b>							
August 1993 ..	4,172	162,726	-	102,221	66,138	155,577	221,715
July 1993 ..	4,266	161,008	-	69,081	54,673	193,804	248,477
August 1992 ..	4,478	145,954	W	95,592	79,867	136,040	215,907
<b>Florida</b>							
August 1993 ..	1,882	77,231	-	17,783	53,107	109,349	162,456
July 1993 ..	2,231	68,210	-	16,052	53,554	120,924	174,478
August 1992 ..	2,237	60,468	W	17,507	61,860	85,112	146,972
<b>Georgia</b>							
August 1993 ..	668	41,114	-	21,986	W	W	9,291
July 1993 ..	804	41,451	-	13,593	-	9,402	9,402
August 1992 ..	833	34,397	-	20,580	-	7,735	7,735
<b>North Carolina</b>							
August 1993 ..	676	6,881	-	36,193	W	W	16,854
July 1993 ..	470	10,680	-	19,410	W	W	16,239
August 1992 ..	608	10,837	-	35,434	W	15,812	W
<b>South Carolina</b>							
August 1993 ..	463	2,166	-	15,858	W	W	W
July 1993 ..	300	2,414	-	8,348	W	W	W
August 1992 ..	281	2,411	-	14,891	W	W	W
<b>Virginia</b>							
August 1993 ..	364	34,945	-	9,213	11,968	14,177	26,145
July 1993 ..	365	37,703	-	10,878	167	39,720	39,887
August 1992 ..	414	37,266	-	8,190	17,077	20,311	37,388
<b>West Virginia</b>							
August 1993 ..	119	589	-	1,209	W	W	W
July 1993 ..	96	550	-	800	-	W	W
August 1992 ..	105	575	-	990	W	W	2,295
<b>PAD District II Total</b>							
August 1993 ..	8,250	285,267	29,740	286,615	3,744	21,376	25,120
July 1993 ..	8,580	270,878	30,325	238,063	3,327	22,774	26,101
August 1992 ..	7,987	297,335	37,880	276,645	5,399	23,404	28,803
<b>Illinois</b>							
August 1993 ..	W	31,847	-	36,106	W	W	W
July 1993 ..	W	28,244	-	24,297	W	W	W
August 1992 ..	W	24,270	-	29,523	W	W	4,770
<b>Indiana</b>							
August 1993 ..	977	49,932	W	20,351	W	W	5,033
July 1993 ..	916	47,933	8,269	18,061	W	W	6,040
August 1992 ..	1,059	54,869	W	19,738	W	W	455
<b>Iowa</b>							
August 1993 ..	431	2,066	W	16,661	W	W	W
July 1993 ..	440	1,953	W	10,902	-	W	W
August 1992 ..	335	2,258	W	15,326	-	W	W
<b>Kansas</b>							
August 1993 ..	611	8,640	W	71,502	W	-	W
July 1993 ..	607	8,559	W	87,098	W	-	W
August 1992 ..	496	8,741	W	51,723	W	-	W
<b>Kentucky</b>							
August 1993 ..	179	15,655	-	15,493	W	W	W
July 1993 ..	183	17,128	-	9,378	W	W	W
August 1992 ..	162	23,538	-	18,247	W	W	399
<b>Michigan</b>							
August 1993 ..	995	27,464	-	14,712	-	W	W
July 1993 ..	903	29,063	-	12,411	69	681	750
August 1992 ..	863	31,980	W	17,469	W	W	2,003
<b>Minnesota</b>							
August 1993 ..	731	30,252	W	18,974	W	W	4,779
July 1993 ..	717	30,909	W	13,133	-	7,269	7,269
August 1992 ..	832	30,432	W	30,027	W	W	5,076
<b>Missouri</b>							
August 1993 ..	490	30,043	W	22,875	W	W	W
July 1993 ..	403	27,871	W	12,900	W	W	488
August 1992 ..	424	26,075	W	25,075	-	W	W

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline	Kerosene- Type Jet Fuel	Naphtha- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Content Less Than or Equal to 1 Percent	Sulfur Content Greater Than 1 Percent	Total Residual
<b>Nebraska</b>							
August 1993 ....	418	2,346	-	7,329	-	W	W
July 1993 .....	322	2,076	-	2,868	-	W	W
August 1992 ...	312	2,208	-	6,729	-	W	W
<b>North Dakota</b>							
August 1993 ..	88	826	W	8,719	-	W	W
July 1993 . . .	104	793	W	5,420	-	W	W
August 1992 .	W	797	W	7,907	-	-	-
<b>Ohio</b>							
August 1993	900	37,456	W	13,889	W	W	3,066
July 1993 ..	958	30,070	W	10,910	W	W	1,388
August 1992	968	39,911	W	12,408	2,034	1,999	4,033
<b>Oklahoma</b>							
August 1993	428	21,584	7,350	15,512	-	-	-
July 1993 ..	382	18,067	8,730	11,430	-	W	W
August 1992	343	30,363	12,361	16,942	W	W	W
<b>South Dakota</b>							
August 1993	W	804	W	3,927	-	W	W
July 1993 ..	W	781	W	2,277	W	W	W
August 1992 ..	W	701	W	4,580	-	W	W
<b>Tennessee</b>							
August 1993 ....	431	20,302	W	6,385	W	W	1,151
July 1993 .....	676	22,510	W	7,145	W	W	1,384
August 1992 ....	561	16,009	W	7,810	W	W	2,697
<b>Wisconsin</b>							
August 1993 .....	626	6,050	-	14,181	W	W	2,821
July 1993 . . . .	985	5,121	-	9,833	-	3,802	3,802
August 1992	646	5,183	-	13,141	-	4,694	4,694
<b>PAD District III Total</b>							
August 1993 ...	5,692	371,470	64,958	333,056	36,458	146,003	182,461
July 1993 .....	6,103	381,661	81,807	313,107	38,699	157,064	195,763
August 1992 .....	5,460	370,410	73,341	364,758	56,295	202,228	258,523
<b>Alabama</b>							
August 1993 ...	515	3,963	W	11,123	-	5,534	5,534
July 1993 ....	510	3,828	W	6,911	W	W	8,232
August 1992 . .	483	4,163	W	11,104	W	W	6,527
<b>Arkansas</b>							
August 1993 .....	499	1,473	W	7,492	-	-	-
July 1993 ..	676	1,823	W	5,556	-	-	-
August 1992 . . .	458	1,286	W	5,893	-	W	W
<b>Louisiana</b>							
August 1993 ....	W	78,719	24,700	25,600	W	W	65,282
July 1993 . . . .	365	72,578	33,035	24,008	W	84,976	W
August 1992 . . .	W	61,294	28,679	24,891	22,801	100,327	123,128
<b>Mississippi</b>							
August 1993 ....	477	26,162	5,675	22,436	W	W	W
July 1993 .....	433	34,850	5,421	18,472	W	W	7,221
August 1992 ..	467	38,241	W	19,536	-	W	W
<b>New Mexico</b>							
August 1993 .....	W	4,648	3,791	16,657	W	-	W
July 1993 ..	366	4,888	3,387	15,068	W	-	W
August 1992 ..	W	4,910	5,749	15,214	W	W	468
<b>Texas</b>							
August 1993 .....	3,552	256,505	27,823	249,748	27,070	76,423	103,493
July 1993 ...	3,753	263,884	37,265	243,092	31,146	82,773	93,919
August 1992 .....	3,328	260,516	34,533	288,120	33,415	94,528	127,943
<b>PAD District IV Total</b>							
August 1993 .....	1,984	51,832	W	26,499	2,325	841	3,166
July 1993 ..	2,029	53,350	W	20,895	2,122	447	2,569
August 1992 ....	2,155	46,599	13,434	23,078	3,697	1,780	5,457
<b>Colorado</b>							
August 1993 .....	736	30,496	W	7,850	-	-	-
July 1993 .....	743	30,734	W	5,682	-	-	-
August 1992 .....	674	24,742	W	6,948	W	-	W

See footnotes at end of table.

**Table 48. Prime Supplier Sales Volumes of Aviation Fuels, Propane, and Residual Fuel Oil by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Aviation Gasoline	Kerosene- Type Jet Fuel	Naphtha- Type Jet Fuel	Propane (Consumer Grade)	Residual Fuel Oil		
					Sulfur Content Less Than or Equal to 1 Percent	Sulfur Content Greater Than 1 Percent	Total Residual
<b>Idaho</b>							
August 1993	187	1,784	-	1,608	-	-	-
July 1993	155	1,760	-	1,864	-	-	-
August 1992	204	2,083	-	1,450	-	W	W
<b>Montana</b>							
August 1993	W	2,257	W	5,889	-	W	W
July 1993	W	2,158	W	3,903	-	W	W
August 1992	W	2,346	W	5,529	-	-	-
<b>Utah</b>							
August 1993	628	16,615	5,261	4,152	W	W	585
July 1993	736	18,226	4,767	3,635	W	W	521
August 1992	757	16,878	8,956	2,924	W	W	712
<b>Wyoming</b>							
August 1993	W	480	W	7,000	W	W	W
July 1993	W	472	W	5,612	W	W	W
August 1992	W	550	-	6,227	W	W	4,694
<b>PAD District V Total</b>							
August 1993	9,111	490,976	13,443	71,346	44,528	144,467	188,995
July 1993	9,414	468,842	31,675	62,378	38,297	127,098	165,395
August 1992	10,686	483,873	36,368	65,444	44,776	205,806	250,581
<b>Alaska</b>							
August 1993	2,151	55,693	W	1,744	-	W	W
July 1993	2,992	48,131	W	W	-	W	W
August 1992	W	49,178	W	1,362	-	W	W
<b>Arizona</b>							
August 1993	691	20,645	W	NA	W	-	W
July 1993	584	15,266	W	2,700	W	-	W
August 1992	482	19,559	W	7,235	W	-	W
<b>California</b>							
August 1993	4,014	276,622	9,844	43,204	W	W	77,910
July 1993	3,927	267,771	28,330	37,639	W	W	61,638
August 1992	4,601	275,661	31,062	35,767	7,576	62,851	70,427
<b>Hawaii</b>							
August 1993	W	28,744	-	W	33,191	8,792	41,983
July 1993	W	29,564	-	W	W	W	40,555
August 1992	W	33,747	-	W	W	8,876	W
<b>Nevada</b>							
August 1993	W	17,496	-	NA	W	W	W
July 1993	W	15,391	-	1,351	W	W	W
August 1992	335	13,737	W	W	W	-	W
<b>Oregon</b>							
August 1993	723	15,182	-	3,505	-	16,514	16,514
July 1993	654	14,153	-	2,999	-	10,961	10,961
August 1992	830	13,824	-	3,246	-	W	W
<b>Washington</b>							
August 1993	1,154	76,594	-	14,702	-	50,769	50,769
July 1993	861	78,566	-	13,224	-	50,340	50,340
August 1992	1,733	78,167	-	13,006	-	62,732	62,732

Dashes (-) = No data reported

NA = Not available.

W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Source: Energy Information Administration Form EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption."

**Table 49. Prime Supplier Sales Volumes of Distillate Fuel Oils  
by PAD District and State**  
(Thousand Gallons)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel	Total		
<b>U.S. Total</b>							
August 1993 ..	28,199	39,758	1,293,581	2,316,438	3,610,019	19,165	3,697,141
July 1993 .....	20,961	32,070	1,251,671	2,275,242	3,526,913	23,567	3,603,511
August 1992 ..	42,186	46,656	1,390,665	2,289,601	3,680,266	19,414	3,788,522
<b>PAD District I Total</b>							
August 1993 .. ...	19,658	7,118	603,283	502,395	1,105,678	15,043	1,147,497
July 1993 .. ...	15,738	7,284	620,270	490,137	1,110,407	15,572	1,149,002
August 1992 .. ...	23,098	7,862	671,357	456,431	1,127,788	12,313	1,171,061
<b>Subdistrict IA Total</b>							
August 1993 .. ...	2,938	216	109,949	49,416	159,365	2,750	165,269
July 1993 .. ...	2,429	556	103,828	45,942	149,770	2,243	154,998
August 1992 .. ...	3,530	W	145,082	48,516	193,598	W	200,900
<b>Connecticut</b>							
August 1993 ..	468	W	23,345	10,934	34,279	W	35,475
July 1993 .....	243	W	23,861	10,094	33,955	W	34,812
August 1992 ..	228	W	28,933	17,887	46,820	W	47,689
<b>Maine</b>							
August 1993 ..	650	W	17,232	7,228	24,460	W	25,265
July 1993 .. ...	912	102	15,495	7,049	22,544	150	22,708
August 1992 ..	1,468	192	19,213	6,077	25,290	270	27,220
<b>Massachusetts</b>							
August 1993 .. .	1,257	W	42,004	17,550	59,554	W	62,051
July 1993 .....	959	W	37,554	15,174	52,728	W	54,478
August 1992 .. ...	1,303	W	50,003	12,863	62,866	W	65,367
<b>New Hampshire</b>							
August 1993 .....	262	W	12,341	6,893	19,034	W	19,555
July 1993 .....	226	W	11,826	6,553	18,379	W	19,064
August 1992 ..	256	65	32,106	6,266	38,372	519	39,212
<b>Rhode Island</b>							
August 1993 .....	W	-	12,879	4,727	17,606	W	18,189
July 1993 .. ...	W	W	12,927	4,650	17,577	366	18,210
August 1992 ..	39	W	11,928	3,403	15,331	W	15,926
<b>Vermont</b>							
August 1993 .. ...	W	W	2,148	2,284	4,432	206	4,714
July 1993 .....	W	W	2,165	2,422	4,587	93	4,726
August 1992 ..	236	W	2,899	2,020	4,919	W	5,486
<b>Subdistrict IB Total</b>							
August 1993 .....	9,808	5,163	309,954	148,041	457,995	11,261	484,225
July 1993 .. ...	9,052	5,089	342,184	148,664	490,848	12,762	517,752
August 1992 .....	12,137	5,132	366,269	122,855	489,124	8,774	515,167
<b>Delaware</b>							
August 1993 ..	289	W	5,373	10,395	15,768	W	16,086
July 1993 ..	25	W	9,850	8,060	17,910	W	17,968
August 1992 ..	85	W	8,569	7,312	15,881	W	16,010
<b>District of Columbia</b>							
August 1993 ..	W	W	2,482	388	2,850	W	6,966
July 1993 ..	W	W	2,488	345	2,831	W	8,461
August 1992 ..	-	W	1,589	445	2,034	W	2,678
<b>Maryland</b>							
August 1993 .....	609	W	19,418	19,689	39,117	W	40,377
July 1993 .....	285	W	20,041	18,606	38,647	W	39,576
August 1992 .....	686	W	19,878	17,495	37,173	W	38,368
<b>New Jersey</b>							
August 1993 .....	2,413	1,463	98,200	29,309	127,509	1,992	133,377
July 1993 ..	3,496	1,817	128,153	26,751	154,904	1,466	161,683
August 1992 .....	3,319	1,519	134,295	18,862	153,157	1,846	159,841
<b>New York</b>							
August 1993 ..	3,308	649	81,479	32,019	113,498	5,550	123,005
July 1993 ..	3,552	639	75,336	34,037	109,373	6,085	119,649
August 1992 ..	2,989	713	85,698	27,316	113,014	6,655	123,371
<b>Pennsylvania</b>							
August 1993 .....	W	1,919	103,002	56,251	159,253	W	164,414
July 1993 .....	W	1,463	106,318	60,865	167,183	W	170,414
August 1992 ..	5,058	W	116,440	51,425	167,865	W	174,899

See footnotes at end of table

**Table 49. Prime Supplier Sales Volumes of Distillate Fuel Oils  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel	Total		
<b>Subdistrict IC Total</b>							
August 1993 . . . .	6,914	1,739	183,380	304,938	488,318	1,032	498,003
July 1993 . . . . .	4,257	1,639	174,258	295,531	469,789	567	476,252
August 1992 . . . .	7,431	W	160,006	285,060	445,066	W	454,994
<b>Florida</b>							
August 1993 . . . .	295	484	33,947	98,334	132,281	419	133,479
July 1993 . . . . .	258	392	32,805	94,417	127,222	224	128,096
August 1992 . . . .	390	W	22,825	95,973	118,798	W	119,847
<b>Georgia</b>							
August 1993 . . . .	412	W	26,823	72,350	99,173	W	99,732
July 1993 . . . . .	W	48	26,434	69,638	96,072	W	96,541
August 1992 . . . .	465	15	19,287	64,595	83,882	156	84,518
<b>North Carolina</b>							
August 1993 . . . .	2,869	W	46,038	48,502	94,540	W	98,199
July 1993 . . . . .	1,677	W	43,694	46,655	90,349	W	92,572
August 1992 . . . .	2,581	W	37,745	46,870	84,615	W	87,915
<b>South Carolina</b>							
August 1993 . . . .	W	W	21,101	23,740	44,841	-	46,112
July 1993 . . . . .	W	-	17,941	22,473	40,414	W	40,958
August 1992 . . . .	1,245	W	15,976	20,446	36,422	W	37,706
<b>Virginia</b>							
August 1993 . . . .	1,713	807	46,070	41,811	87,881	137	90,538
July 1993 . . . . .	1,283	749	44,936	44,050	88,986	93	91,111
August 1992 . . . .	2,454	771	53,978	39,194	93,172	79	96,476
<b>West Virginia</b>							
August 1993 . . . .	W	W	9,401	20,201	29,602	W	29,943
July 1993 . . . . .	169	W	8,448	18,298	26,746	W	26,974
August 1992 . . . .	296	59	10,195	17,982	28,177	-	28,532
<b>PAD District II Total</b>							
August 1993 . . . .	6,392	19,719	500,438	678,411	1,178,849	3,724	1,208,884
July 1993 . . . . .	3,380	W	445,753	644,249	1,090,002	W	1,115,888
August 1992 . . . .	5,136	W	480,905	619,955	1,100,860	W	1,134,300
<b>Illinois</b>							
August 1993 . . . .	515	W	56,892	73,027	129,919	W	135,560
July 1993 . . . . .	185	W	50,994	67,198	118,192	W	123,721
August 1992 . . . .	231	W	83,034	63,222	146,256	W	151,252
<b>Indiana</b>							
August 1993 . . . .	354	W	51,587	68,457	120,044	W	122,604
July 1993 . . . . .	245	W	38,499	67,289	105,788	W	110,079
August 1992 . . . .	429	W	39,887	61,096	100,983	W	106,395
<b>Iowa</b>							
August 1993 . . . .	120	409	25,404	35,001	60,405	-	60,934
July 1993 . . . . .	78	521	24,891	30,785	55,676	-	56,275
August 1992 . . . .	W	W	24,164	32,030	56,194	-	57,328
<b>Kansas</b>							
August 1993 . . . .	W	W	35,670	34,339	70,009	-	70,400
July 1993 . . . . .	W	W	31,759	34,529	66,288	-	66,652
August 1992 . . . .	63	834	34,605	37,251	71,856	-	72,753
<b>Kentucky</b>							
August 1993 . . . .	500	W	32,143	53,468	85,611	W	86,756
July 1993 . . . . .	200	W	28,497	49,425	77,922	W	78,546
August 1992 . . . .	491	W	19,922	45,881	65,803	W	66,756
<b>Michigan</b>							
August 1993 . . . .	623	5,378	51,656	33,066	84,722	-	90,723
July 1993 . . . . .	422	5,081	47,867	32,132	79,999	-	85,502
August 1992 . . . .	704	3,891	51,133	27,452	78,585	-	83,180
<b>Minnesota</b>							
August 1993 . . . .	224	W	27,913	38,716	66,629	W	69,301
July 1993 . . . . .	67	W	28,278	34,117	62,395	W	63,994
August 1992 . . . .	W	1,904	32,410	34,241	66,651	W	68,887
<b>Missouri</b>							
August 1993 . . . .	68	663	22,265	55,242	77,507	-	78,239
July 1993 . . . . .	143	486	20,315	50,351	70,666	-	71,295
August 1992 . . . .	67	805	20,843	47,066	67,909	-	68,781

See footnotes at end of table.



**Table 49. Prime Supplier Sales Volumes of Distillate Fuel Oils  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel	Total		
<b>Nebraska</b>							
August 1993 . . .	W	W	12,133	32,743	44,876	-	45,349
July 1993 . . .	W	W	11,220	29,860	41,080	-	41,460
August 1992 . . .	W	W	12,668	26,722	39,390	-	40,074
<b>North Dakota</b>							
August 1993	W	W	12,145	13,012	25,157	-	25,693
July 1993	-	220	11,344	7,905	19,249	-	19,469
August 1992 .	11	422	13,874	11,616	25,490	-	25,923
<b>Ohio</b>							
August 1993 .	2,994	W	58,327	83,884	142,211	W	145,868
July 1993 ..	1,502	W	52,369	78,964	131,333	W	133,340
August 1992	1,723	W	45,210	75,072	120,282	W	122,690
<b>Oklahoma</b>							
August 1993 . .	W	W	30,008	49,241	79,249	-	81,480
July 1993	20	2,026	20,750	56,022	76,772	-	78,818
August 1992 ....	W	W	30,710	51,865	82,575	-	87,793
<b>South Dakota</b>							
August 1993 .	33	515	9,607	13,309	22,916	-	23,464
July 1993 ...	-	313	8,747	9,751	18,498	-	18,811
August 1992	W	W	9,759	10,600	20,359	-	21,088
<b>Tennessee</b>							
August 1993 . ...	665	W	28,706	68,866	97,572	W	98,992
July 1993 ... ..	270	W	28,549	72,056	100,605	W	101,350
August 1992 ....	926	W	21,336	73,199	94,535	W	95,931
<b>Wisconsin</b>							
August 1993 ..	47	W	45,982	26,039	72,021	W	73,321
July 1993 ....	211	W	41,674	23,864	65,538	W	66,576
August 1992 ...	171	W	41,350	22,642	63,992	W	65,469
<b>PAD District III Total</b>							
August 1993 ... .	1,490	W	116,204	514,153	630,357	W	635,127
July 1993 . . . . .	1,521	2,200	121,787	556,355	678,142	-	681,863
August 1992 . . . . .	13,677	W	171,585	567,070	738,655	W	750,157
<b>Alabama</b>							
August 1993 ...	174	304	11,978	47,764	59,742	-	60,220
July 1993 .. .	136	329	W	W	53,733	-	54,198
August 1992 .. .	131	240	12,064	42,250	54,314	-	54,685
<b>Arkansas</b>							
August 1993 .....	W	W	4,777	57,725	62,502	-	62,744
July 1993 . . . . .	W	W	5,829	63,249	69,078	-	69,526
August 1992 ..	W	W	W	W	53,779	-	53,931
<b>Louisiana</b>							
August 1993 . . . . .	W	W	10,660	99,000	109,660	-	110,357
July 1993 . . . . .	W	W	10,907	109,581	120,488	-	121,233
August 1992 ....	1,371	419	9,846	107,806	117,652	-	119,442
<b>Mississippi</b>							
August 1993 . . . . .	119	W	W	W	54,471	W	54,608
July 1993 . . . . .	W	W	18,703	46,142	64,845	-	64,952
August 1992 ....	W	44	15,162	42,453	57,615	W	59,222
<b>New Mexico</b>							
August 1993 .....	48	39	W	W	27,689	-	27,776
July 1993 . . . . .	94	31	W	W	29,708	-	29,833
August 1992 ... ..	41	134	W	W	31,125	-	31,300
<b>Texas</b>							
August 1993 ....	643	2,486	74,125	242,169	316,294	-	319,423
July 1993 . . . . .	462	1,369	72,012	268,278	340,290	-	342,121
August 1992 ... ..	11,873	1,534	127,054	297,116	424,170	-	437,577
<b>PAD District IV Total</b>							
August 1993 .....	62	2,772	37,293	127,927	165,220	-	168,054
July 1993 . . . . .	79	2,260	32,010	115,767	147,777	-	150,116
August 1992 .....	W	W	31,933	117,804	149,737	-	152,533
<b>Colorado</b>							
August 1993 . . . . .	W	W	18,525	27,237	45,762	-	46,915
July 1993 . . . . .	W	W	16,270	29,700	45,970	-	47,025
August 1992 . . . . .	W	W	13,104	29,507	42,611	-	44,028

See footnotes at end of table

**Table 49. Prime Supplier Sales Volumes of Distillate Fuel Oils  
by PAD District and State (Continued)**  
(Thousand Gallons)

Geographic Area Month	Kerosene	No. 1 Distillate	No. 2 Distillate			No. 4 Fuel	Total Distillate and Kerosene
			No. 2 Fuel Oil	No. 2 Diesel	Total		
<b>Idaho</b>							
August 1993 . . . . .	W	W	W	W	23,729	-	24,373
July 1993 . . . . .	-	W	W	W	W	-	17,825
August 1992 . . . . .	-	419	W	W	23,468	-	23,887
<b>Montana</b>							
August 1993 . . . . .	-	603	W	W	26,420	-	27,023
July 1993 . . . . .	-	W	W	16,699	W	-	22,566
August 1992 . . . . .	-	493	W	W	24,876	-	25,369
<b>Utah</b>							
August 1993 . . . . .	W	W	W	W	36,034	-	36,283
July 1993 . . . . .	W	W	W	W	32,616	-	32,853
August 1992 . . . . .	W	W	4,801	26,816	31,617	-	31,907
<b>Wyoming</b>							
August 1993 . . . . .	-	185	2,365	30,910	33,275	-	33,460
July 1993 . . . . .	-	129	2,403	27,315	29,718	-	29,847
August 1992 . . . . .	-	177	2,238	24,927	27,165	-	27,342
<b>PAD District V Total</b>							
August 1993 . . . . .	597	W	36,363	493,552	529,915	W	537,779
July 1993 . . . . .	242	W	31,851	468,734	500,585	W	506,642
August 1992 . . . . .	W	9,832	34,885	528,341	563,226	W	574,471
<b>Alaska</b>							
August 1993 . . . . .	-	W	18,295	13,038	31,333	W	35,783
July 1993 . . . . .	-	W	13,665	10,507	24,172	W	26,612
August 1992 . . . . .	W	7,384	12,384	11,479	23,863	W	31,363
<b>Arizona</b>							
August 1993 . . . . .	-	W	W	W	42,362	W	42,449
July 1993 . . . . .	W	W	W	W	41,396	W	41,450
August 1992 . . . . .	W	W	W	W	33,627	-	33,784
<b>California</b>							
August 1993 . . . . .	W	816	W	W	267,692	W	269,333
July 1993 . . . . .	185	W	W	W	260,378	W	262,181
August 1992 . . . . .	54	W	663	300,391	301,054	W	302,812
<b>Hawaii</b>							
August 1993 . . . . .	-	W	W	14,101	W	-	14,979
July 1993 . . . . .	-	W	W	15,546	W	-	16,435
August 1992 . . . . .	-	W	W	16,436	W	-	17,152
<b>Nevada</b>							
August 1993 . . . . .	-	W	W	22,600	W	-	23,196
July 1993 . . . . .	-	W	W	20,496	W	-	20,874
August 1992 . . . . .	-	208	W	W	21,096	-	21,304
<b>Oregon</b>							
August 1993 . . . . .	-	295	7,466	64,252	71,718	-	72,013
July 1993 . . . . .	-	195	7,113	56,734	63,847	-	64,042
August 1992 . . . . .	W	501	W	59,777	W	-	66,879
<b>Washington</b>							
August 1993 . . . . .	W	760	9,686	69,540	79,226	W	80,026
July 1993 . . . . .	W	505	10,047	63,982	74,029	W	75,047
August 1992 . . . . .	W	670	14,605	85,810	100,415	W	101,177

Dashes (-) = No data reported.

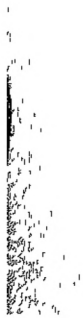
W = Withheld to avoid disclosure of individual company data.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Totals may not equal the sum of components due to rounding.

Note: Total Distillate = No. 1 Distillate + No. 2 Distillate + No. 4 Fuel Oil

Source: Energy Information Administration Form EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption."

# **Standard Errors and Survey Response Percentages**



**Table 50. Standard Errors of Total Motor Gasoline Prices<sup>a</sup>  
by Sales Type, PAD District and State  
(Cents per Gallon, Excluding Taxes)**

Geographic Area Month	Refiner/Reseller				Reseller			
	Sales to End Users			Sales for Resale	Sales to End Users			Sales for Resale
	Through Company Outlets	Other End Users	Average		Through Company Outlets	Other End Users	Average	
<b>U.S. Average</b>								
August 1993 . . . . .	0.1	0.3	0.1	0.1	0.2	0.4	0.2	0.2
July 1993 . . . . .	1	3	1	.1	.2	3	.2	2
<b>PAD District I Average</b>								
August 1993 . . . . .	2	5	2	1	4	5	3	.3
July 1993 . . . . .	2	4	2	1	3	4	3	.3
<b>Subdistrict IA Average</b>								
August 1993 . . . . .	5	.5	.4	1	.6	6	.5	.4
July 1993 . . . . .	4	4	4	1	.5	5	.4	.2
<b>Connecticut</b>								
August 1993 . . . . .	.4	5	4	.1	.5	6	5	.6
July 1993 . . . . .	.3	7	3	1	.3	.8	3	.6
<b>Maine</b>								
August 1993 . . . . .	.2	1.1	3	.2	.2	1.1	3	.5
July 1993 . . . . .	.1	1.0	.2	2	.1	1.0	.2	.4
<b>Massachusetts</b>								
August 1993 . . . . .	.6	1.1	5	.3	.7	1.4	.6	.7
July 1993 . . . . .	.7	1.0	6	.1	.7	1.1	.7	.4
<b>New Hampshire</b>								
August 1993 . . . . .	.7	2	7	.5	.8	2	.8	.8
July 1993 . . . . .	7	.3	.6	.3	.8	.3	.7	.6
<b>Rhode Island</b>								
August 1993 . . . . .	2.7	1.6	2.5	.3	3.2	2.1	3.0	6
July 1993 . . . . .	2.1	1.2	1.8	.4	2.5	1.4	2.2	7
<b>Vermont</b>								
August 1993 . . . . .	5	.7	.5	6	5	.7	.5	.7
July 1993 . . . . .	5	6	.5	.2	.5	.6	.5	.3
<b>Subdistrict IB Average</b>								
August 1993 . . . . .	.5	6	4	.1	.9	.7	.7	.5
July 1993 . . . . .	.4	6	3	1	.6	.7	.5	5
<b>Delaware</b>								
August 1993 . . . . .	.5	1.4	5	1	.5	1.6	.5	6
July 1993 . . . . .	6	1.6	6	1	.6	1.6	.6	.7
<b>District of Columbia</b>								
August 1993 . . . . .	NA	3	.1	.1	NA	.4	.1	.1
July 1993 . . . . .	NA	4	.1	.1	NA	4	1	.1
<b>Maryland</b>								
August 1993 . . . . .	.7	8	.5	.1	.7	.7	.5	.6
July 1993 . . . . .	6	.7	.4	1	.8	.7	.5	.5
<b>New Jersey</b>								
August 1993 . . . . .	.3	1.0	.3	3	6	1.6	9	.7
July 1993 . . . . .	.3	9	.3	.3	.8	1.3	1.0	.7
<b>New York</b>								
August 1993 . . . . .	.4	1.3	4	.1	.6	1.5	.6	.6
July 1993 . . . . .	.3	1.4	.3	1	.5	1.5	.5	.6
<b>Pennsylvania</b>								
August 1993 . . . . .	1.2	1.0	1.0	2	2.0	1.2	1.7	.8
July 1993 . . . . .	.8	9	.7	.2	1.2	1.0	1.0	.8
<b>Subdistrict IC Average</b>								
August 1993 . . . . .	.3	.7	3	.1	.4	.8	.4	.6
July 1993 . . . . .	.3	7	.3	.2	.4	7	.4	.7
<b>Florida</b>								
August 1993 . . . . .	7	1.6	6	.4	1.1	1.8	1.0	2.8
July 1993 . . . . .	.8	1.6	7	.4	1.3	1.9	1.1	2.9
<b>Georgia</b>								
August 1993 . . . . .	4	1.1	.3	.3	.5	1.0	.4	1.0
July 1993 . . . . .	.4	1.2	.3	.4	5	1.1	.4	1.3
<b>North Carolina</b>								
August 1993 . . . . .	.8	1.0	7	.3	1.0	1.1	.9	.9
July 1993 . . . . .	.7	1.1	.7	.4	9	1.2	.9	1.0
<b>South Carolina</b>								
August 1993 . . . . .	.7	2.7	6	.3	1.0	2.9	.9	.7
July 1993 . . . . .	.8	2.0	7	.3	1.1	2.2	1.0	.7

See footnotes at end of table

**Table 50. Standard Errors of Total Motor Gasoline Prices<sup>a</sup>  
by Sales Type, PAD District and State (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Refiner/Reseller				Reseller			
	Sales to End Users			Sales for Resale	Sales to End Users			Sales for Resale
	Through Company Outlets	Other End Users	Average		Through Company Outlets	Other End Users	Average	
<b>Virginia</b>								
August 1993	0.7	1.3	0.6	0.2	0.9	1.5	0.8	0.8
July 1993	.4	1.0	.4	.1	.5	1.2	.5	.7
<b>West Virginia</b>								
August 1993	.5	.6	.4	.6	1.3	1.0	1.0	1.3
July 1993	.5	.5	.4	.3	1.0	.9	.9	.9
<b>PAD District II Average</b>								
August 1993	.2	.4	.2	.1	.3	.5	.3	.3
July 1993	.2	.4	.2	.1	.3	.4	.3	.3
<b>Illinois</b>								
August 1993	.7	.8	.7	.2	1.2	.9	1.0	.8
July 1993	.7	1.1	.6	.1	1.1	1.1	.9	.6
<b>Indiana</b>								
August 1993	.4	1.3	.4	.5	.7	1.4	.6	1.4
July 1993	.4	1.0	.3	.5	.6	1.1	.5	1.3
<b>Iowa</b>								
August 1993	.3	.9	.3	.1	.4	.9	.4	.4
July 1993	.4	1.5	.4	.2	.5	1.5	.5	.5
<b>Kansas</b>								
August 1993	.6	1.0	.6	.2	.9	.8	.8	.7
July 1993	.6	1.0	.5	.3	.8	.8	.7	1.2
<b>Kentucky</b>								
August 1993	1.1	2.7	1.2	.4	1.8	3.2	1.8	1.4
July 1993	.9	2.1	.9	.4	1.4	2.5	1.3	1.2
<b>Michigan</b>								
August 1993	.4	.9	.4	.3	.8	1.2	.8	1.6
July 1993	.4	.9	.3	.3	.8	1.2	.7	1.4
<b>Minnesota</b>								
August 1993	.6	2.2	.7	.1	1.3	2.3	1.2	.3
July 1993	.7	1.5	.7	.2	1.4	1.4	1.1	.5
<b>Missouri</b>								
August 1993	.6	NA	.6	.2	.9	NA	.9	.7
July 1993	.5	1.4	.5	.6	.7	1.6	.7	1.4
<b>Nebraska</b>								
August 1993	.3	.9	.3	.2	.4	.9	.4	.6
July 1993	.4	1.2	.4	.2	.5	1.3	.5	.5
<b>North Dakota</b>								
August 1993	1.2	2.2	1.1	.4	1.3	2.2	1.1	1.0
July 1993	2.0	2.4	1.6	.5	2.1	2.4	1.6	1.2
<b>Ohio</b>								
August 1993	.3	.9	.3	.1	.8	1.2	.7	.6
July 1993	.3	1.3	.3	.2	1.1	1.7	1.0	1.1
<b>Oklahoma</b>								
August 1993	.8	1.3	.7	.2	1.2	2.4	1.1	1.0
July 1993	.8	1.3	.5	.3	.9	1.9	.8	1.0
<b>South Dakota</b>								
August 1993	1.1	1.0	1.0	.4	1.1	1.0	1.1	1.2
July 1993	1.0	3.3	1.3	.5	1.0	3.4	1.3	1.1
<b>Tennessee</b>								
August 1993	.3	1.9	.3	.5	.5	2.3	.6	1.6
July 1993	.2	1.3	.3	.4	.4	1.5	.5	1.6
<b>Wisconsin</b>								
August 1993	.4	1.7	.4	.3	.6	1.7	.6	.8
July 1993	.4	1.4	.4	.3	.6	1.4	.6	.8
<b>PAD District III Average</b>								
August 1993	.3	1.1	.3	.2	.5	1.2	.5	.7
July 1993	.2	1.0	.3	.3	.4	1.2	.4	.8
<b>Alabama</b>								
August 1993	.6	3.2	.9	.5	.7	3.6	1.0	1.3
July 1993	.5	2.9	.7	.5	.6	3.2	.8	1.3
<b>Arkansas</b>								
August 1993	.9	2.2	1.3	.3	1.2	2.2	1.6	1.0
July 1993	.9	2.1	1.0	.4	1.1	2.2	1.2	1.3

See footnotes at end of table.

**Table 50. Standard Errors of Total Motor Gasoline Prices<sup>a</sup>  
by Sales Type, PAD District and State (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Refiner/Reseller				Reseller			
	Sales to End Users			Sales for Resale	Sales to End Users			Sales for Resale
	Through Company Outlets	Other End Users	Average		Through Company Outlets	Other End Users	Average	
<b>Louisiana</b>								
August 1993 . . . . .	0.9	2.1	1.0	0.4	1.5	2.2	1.5	1.1
July 1993 . . . . .	.8	1.6	.8	.5	1.3	1.6	1.3	1.3
<b>Mississippi</b>								
August 1993 . . . . .	.9	1.7	.8	.4	1.0	1.7	.9	1.1
July 1993 . . . . .	1.1	1.7	1.0	.4	1.2	1.8	1.1	1.2
<b>New Mexico</b>								
August 1993 . . . . .	1.1	1.7	1.0	.2	1.6	1.8	1.4	1.1
July 1993 . . . . .	1.0	1.0	.9	.2	1.4	1.1	1.3	1.3
<b>Texas</b>								
August 1993 . . . . .	.3	2.0	.3	.4	.6	2.3	.6	1.1
July 1993 . . . . .	.3	2.2	.3	.4	.6	2.5	.6	1.2
<b>PAD District IV Average</b>								
August 1993 . . . . .	.2	.8	.3	.2	.4	.8	.4	.6
July 1993 . . . . .	.3	.8	.2	.2	.4	.8	.4	.6
<b>Colorado</b>								
August 1993 . . . . .	.4	2.1	.4	.3	.9	2.1	1.0	.9
July 1993 . . . . .	.3	1.6	.3	.3	.8	1.6	.7	.9
<b>Idaho</b>								
August 1993 . . . . .	.7	.5	.5	.3	.7	.5	.6	.9
July 1993 . . . . .	.6	.5	.5	.5	.6	.5	.5	1.2
<b>Montana</b>								
August 1993 . . . . .	.4	1.8	.7	.5	.4	1.8	.7	1.8
July 1993 . . . . .	.3	1.8	.5	.5	.3	1.8	.5	1.8
<b>Utah</b>								
August 1993 . . . . .	.9	NA	.9	.3	1.2	NA	1.2	1.0
July 1993 . . . . .	.7	.8	.6	.2	1.1	1.2	.9	.6
<b>Wyoming</b>								
August 1993 . . . . .	.6	2.1	.9	.3	.6	2.2	1.1	1.0
July 1993 . . . . .	.7	2.1	.7	.3	.9	2.2	.8	1.5
<b>PAD District V Average</b>								
August 1993 . . . . .	.3	1.6	.4	.2	.6	1.9	.9	1.3
July 1993 . . . . .	.3	1.3	.4	.1	.6	1.6	.8	.8
<b>Alaska</b>								
August 1993 . . . . .	5.2	5.3	2.4	.8	NA	4.6	3.3	2.6
July 1993 . . . . .	6.9	5.9	4.0	1.0	2.5	2.7	1.6	2.0
<b>Arizona</b>								
August 1993 . . . . .	.3	1.6	.4	.3	.5	1.9	.6	1.2
July 1993 . . . . .	.3	1.2	.3	.3	.5	1.4	.6	1.3
<b>California</b>								
August 1993 . . . . .	.4	2.3	.7	.3	1.5	2.7	1.7	1.6
July 1993 . . . . .	.3	1.9	.6	.2	1.3	2.2	1.4	1.2
<b>Hawaii</b>								
August 1993 . . . . .	.0	1.0	.1	.2	.0	1.0	.2	5.4
July 1993 . . . . .	.1	3.1	.4	.1	.1	4.1	.2	2.2
<b>Nevada</b>								
August 1993 . . . . .	.9	1.0	1.0	.2	1.0	1.1	1.2	1.0
July 1993 . . . . .	1.0	1.7	1.1	.4	1.2	1.8	1.3	.
<b>Oregon</b>								
August 1993 . . . . .	.9	1.8	.5	.5	1.2	1.9	.7	
July 1993 . . . . .	1.0	1.1	.6	.5	1.4	1.2	.9	
<b>Washington</b>								
August 1993 . . . . .	.5	1.5	.5	.2	1.3	1.6	1.1	
July 1993 . . . . .	.7	1.2	.6	.2	1.6	1.2	1.2	

\* Sales prices shown in Tables 28, 29 and 30

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon public petroleum Marketing Annual. Standard errors are not additive. Standard errors that are less than 0.1 and greater than zero are displayed as

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," 62B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 51. Standard Errors of Motor Gasoline Prices<sup>a</sup> by Grade,  
PAD District, and State**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Refiner/Reseller											
	Leaded Regular			Unleaded Regular			Unleaded Midgrade			Premium		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>U.S. Average</b>												
August 1993 . . . . .	0.3	0.5	0.1	0.1	0.3	0.1	0.1	0.6	0.1	0.1	0.5	0.1
July 1993 . . . . .	.4	.5	.1	.1	.3	.1	.1	.5	.1	.1	.4	.1
<b>PAD District I Average</b>												
August 1993 . . . . .	2.5	2.3	5.3	2	.4	1	2	6	1	3	.9	1
July 1993 . . . . .	2.3	1.8	5.7	2	.4	1	2	5	1	3	.7	1
<b>Subdistrict IA Average</b>												
August 1993 . . . . .	-	NA	NA	.4	.5	.1	.8	.6	1	.9	.7	.2
July 1993 . . . . .	-	NA	NA	.4	.4	.1	.7	.6	.1	.8	.8	.1
<b>Connecticut</b>												
August 1993 . . . . .	-	-	-	.3	.3	1	.4	.5	1	.6	1.2	.1
July 1993 . . . . .	-	-	-	2	.3	1	.2	.8	.2	.5	1.7	.1
<b>Maine</b>												
August 1993 . . . . .	-	-	-	2	1.1	2	.4	1.7	3	.7	1.5	.3
July 1993 . . . . .	-	-	-	2	.9	2	.2	1.2	3	.4	2.0	.3
<b>Massachusetts</b>												
August 1993 . . . . .	-	-	-	6	.9	3	.8	1.1	2	.6	1.6	.3
July 1993 . . . . .	-	-	-	6	.8	1	.9	.9	1	.7	1.7	.2
<b>New Hampshire</b>												
August 1993 . . . . .	-	-	-	9	.5	.3	5	1	.6	.8	.5	.9
July 1993 . . . . .	-	-	-	8	.8	.3	4	.1	.7	1.6	.7	.5
<b>Rhode Island</b>												
August 1993 . . . . .	-	NA	-	2.3	.7	.2	4.0	.5	2	4.0	3.1	.3
July 1993 . . . . .	-	NA	-	1.8	.7	.3	3.3	.5	3	3.1	3.6	.5
<b>Vermont</b>												
August 1993 . . . . .	-	NA	NA	.5	.9	.4	.3	.5	.6	.8	.8	.6
July 1993 . . . . .	-	NA	NA	.3	.9	.2	.2	.5	.2	.7	.9	.2
<b>Subdistrict IB Average</b>												
August 1993 . . . . .	2.6	2.4	5.2	.5	.5	1	.5	.7	.1	.5	1.0	.1
July 1993 . . . . .	2.2	2.0	5.6	.3	.5	1	.4	.6	.1	.4	.8	.2
<b>Delaware</b>												
August 1993 . . . . .	-	-	-	4	1.0	.1	.8	1.2	1	.6	3.1	.1
July 1993 . . . . .	-	-	-	5	1.1	.1	.8	1.2	1	.8	3.5	.1
<b>District of Columbia</b>												
August 1993 . . . . .	-	-	-	NA	.3	.1	NA	.0	.1	NA	.2	.1
July 1993 . . . . .	-	-	-	NA	.5	1	NA	.0	1	NA	.5	.1
<b>Maryland</b>												
August 1993 . . . . .	-	-	-	.5	.6	.1	.9	.7	.1	1.1	1.2	.1
July 1993 . . . . .	-	-	-	.4	.6	.1	.8	1.2	.1	1.0	1.5	.1
<b>New Jersey</b>												
August 1993 . . . . .	-	NA	NA	.2	.8	2	.2	2.8	1	.2	1.0	.3
July 1993 . . . . .	-	NA	NA	.2	.7	.2	.2	1.8	2	.3	1.0	.6
<b>New York</b>												
August 1993 . . . . .	.2	1.6	5.6	.5	.8	.1	.4	2.0	.2	.4	2.7	.3
July 1993 . . . . .	.2	1.6	5.2	.4	1.0	.1	.5	1.6	.1	.4	2.3	.2
<b>Pennsylvania</b>												
August 1993 . . . . .	NA	1.8	.0	1.1	.9	.2	1.1	1.0	.3	1.4	1.2	.2
July 1993 . . . . .	NA	1.9	.0	.7	.9	.2	.7	.9	.3	.9	.8	.2
<b>Subdistrict IC Average</b>												
August 1993 . . . . .	NA	NA	NA	.3	.6	.1	.3	1.1	.2	.4	1.5	.2
July 1993 . . . . .	NA	NA	-	.2	.6	.1	.3	.9	.2	.4	1.3	.2
<b>Florida</b>												
August 1993 . . . . .	-	-	-	.6	1.6	.4	.5	2.4	.5	.5	3.8	.3
July 1993 . . . . .	-	-	-	.7	1.6	.4	.6	1.9	.4	.5	3.4	.3
<b>Georgia</b>												
August 1993 . . . . .	NA	-	-	.3	1.1	.2	.6	1.4	.4	1.1	2.6	.3
July 1993 . . . . .	NA	-	-	.2	1.3	.3	.6	1.9	.6	1.2	2.5	.4
<b>North Carolina</b>												
August 1993 . . . . .	-	NA	-	.6	1.1	.3	.8	1.9	.4	1.0	1.4	.4
July 1993 . . . . .	-	NA	-	.6	1.2	.3	.8	1.5	.5	1.0	1.9	.4

See footnotes at end of table.



**Table 51. Standard Errors of Motor Gasoline Prices<sup>a</sup> by Grade, PAD District, and State (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Refiner/Reseller											
	Leaded Regular			Unleaded Regular			Unleaded Midgrade			Premium		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>South Carolina</b>												
August 1993 . . . . .	-	-	-	0.6	2.3	0.3	0.7	3.3	0.2	0.9	3.0	0.3
July 1993 . . . . .	-	-	-	6	1.8	3	.7	1.9	3	1.4	3.1	3
<b>Virginia</b>												
August 1993 . . . . .	-	-	NA	5	.7	.2	.6	2.3	.2	6	1.6	2
July 1993 . . . . .	-	-	-	3	.5	.2	4	1.9	2	5	1.1	.2
<b>West Virginia</b>												
August 1993 . . . . .	-	NA	-	5	5	.6	6	9	.7	6	.7	4
July 1993 . . . . .	-	NA	-	4	4	3	.5	7	4	6	8	.5
<b>PAD District II Average</b>												
August 1993 . . . . .	1.1	0.6	0.5	2	4	1	.2	9	2	.2	7	.1
July 1993 . . . . .	.9	7	.4	2	3	.1	2	9	.1	.2	7	1
<b>Illinois</b>												
August 1993 . . . . .	1.0	4.6	.6	1.0	.9	.2	7	1.4	.2	.5	1.4	2
July 1993 . . . . .	.6	4.5	5	8	1.0	2	8	1.1	.2	.6	1.8	2
<b>Indiana</b>												
August 1993 . . . . .	2.1	1.1	1.4	4	1.3	5	5	2.6	.6	.7	2.1	.5
July 1993 . . . . .	1.9	.8	1.2	3	1.1	5	.4	1.8	.7	.5	2.3	.5
<b>Iowa</b>												
August 1993 . . . . .	6	9	2.4	.3	9	.1	8	1.1	.5	.7	2.0	.3
July 1993 . . . . .	1.1	4	2.2	.4	1.7	.1	9	1.2	.6	.9	1.3	2
<b>Kansas</b>												
August 1993 . . . . .	1.6	NA	4.6	.6	.9	.2	8	2.6	.6	1.2	1.7	3
July 1993 . . . . .	1.0	-	.4	5	1.0	.3	10	2.6	8	1.0	1.8	5
<b>Kentucky</b>												
August 1993 . . . . .	NA	NA	NA	1.0	2.5	.3	1.4	3.0	.5	1.3	3.6	.5
July 1993 . . . . .	NA	NA	NA	7	2.1	3	1.1	1.9	.5	1.0	2.9	4
<b>Michigan</b>												
August 1993 . . . . .	.8	1.3	.6	.4	1.0	3	.3	1.2	4	.4	8	3
July 1993 . . . . .	2.3	1.3	.6	.3	1.0	.2	.3	1.5	2	.6	8	3
<b>Minnesota</b>												
August 1993 . . . . .	8	2.7	2	7	2.2	.1	10	1.7	.7	.8	2.3	3
July 1993 . . . . .	1.4	4.0	.4	.7	1.0	.2	1.1	1.6	.6	.9	2.4	3
<b>Missouri</b>												
August 1993 . . . . .	3.3	.8	NA	.7	NA	2	.8	NA	.9	.8	NA	4
July 1993 . . . . .	3.1	1.1	6	5	1.3	.6	.5	2.8	.8	.5	2.4	5
<b>Nebraska</b>												
August 1993 . . . . .	1.9	1.5	3	3	1.1	.2	1.2	.9	1.0	.6	1.5	.1
July 1993 . . . . .	1.8	1.1	2	4	1.4	.2	.4	2.1	.6	.6	.9	.1
<b>North Dakota</b>												
August 1993 . . . . .	1.0	1.0	1.5	1.2	1.9	4	1.6	NA	.1	.9	2.3	.4
July 1993 . . . . .	1.2	1.3	2.0	2.1	2.2	.6	1.8	NA	.2	1.1	2.2	.5
<b>Ohio</b>												
August 1993 . . . . .	1.7	NA	NA	.2	.7	2	.3	2.2	.2	.3	9	.1
July 1993 . . . . .	2.4	NA	NA	.3	1.0	.2	.3	2.3	.3	.4	1.6	2
<b>Oklahoma</b>												
August 1993 . . . . .	.4	-	NA	.7	1.5	.2	9	3.5	.8	1.0	1.3	4
July 1993 . . . . .	2	-	NA	.6	1.4	.2	.6	2.5	.6	.9	1.7	4
<b>South Dakota</b>												
August 1993 . . . . .	.3	1.2	.7	1.4	1.5	3	2.2	2.0	9	1.2	.5	7
July 1993 . . . . .	.2	1.6	.5	1.1	3.1	.4	2.5	1.2	.7	1.0	.4	.7
<b>Tennessee</b>												
August 1993 . . . . .	NA	-	-	.3	1.5	.3	.3	2.4	6	.5	3.0	.7
July 1993 . . . . .	NA	-	-	.2	1.1	.3	2	1.3	.5	.3	2.0	.6
<b>Wisconsin</b>												
August 1993 . . . . .	1.3	.9	2.0	.5	1.5	.3	.5	3.9	4	.5	1.6	.4
July 1993 . . . . .	.6	1.8	1.3	.5	1.2	.3	.4	2.6	.4	.5	2.3	.5
<b>PAD District III Average</b>												
August 1993 . . . . .	1.4	1.2	.2	.3	1.3	.2	.2	1.8	.4	.3	1.3	.3
July 1993 . . . . .	1.4	2.7	.7	.2	1.3	.2	.3	1.6	.4	.3	1.1	.3

See footnotes at end of table

**Table 51. Standard Errors of Motor Gasoline Prices<sup>a</sup> by Grade,  
PAD District, and State (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Refiner/Reseller											
	Leaded Regular			Unleaded Regular			Unleaded Midgrade			Premium		
	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale	Sales to End Users		Sales for Resale
	Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users		Through Company Outlets	Other End Users	
<b>Alabama</b>												
August 1993	NA	-	-	0.5	1.9	0.5	0.7	6.3	0.6	0.7	4.2	0.7
July 1993	NA	-	-	4	1.5	5	5	5.7	5	6	3.9	7
<b>Arkansas</b>												
August 1993	NA	-	NA	6	2.2	4	1.2	1.8	.5	1.5	2.6	4
July 1993	NA	-	NA	7	2.1	4	1.3	2.1	.8	1.0	2.3	5
<b>Louisiana</b>												
August 1993	2.3	-	-	7	2.1	3	.6	3.1	.4	.8	2.1	4
July 1993	2.1	-	-	6	1.4	4	.8	2.7	.5	1.0	1.7	5
<b>Mississippi</b>												
August 1993	NA	NA	NA	8	1.3	3	.9	3.4	.5	1.1	2.8	5
July 1993	NA	NA	NA	10	1.6	3	1.2	2.6	.6	1.2	3.0	6
<b>New Mexico</b>												
August 1993	1.0	2.1	0.2	1.1	2.0	2	.9	NA	.1	1.6	7	.4
July 1993	1.0	2.2	.3	1.0	1.0	2	6	NA	.6	1.6	.6	.4
<b>Texas</b>												
August 1993	1.4	1.0	3	4	2.5	3	.2	2.3	.6	.3	2.3	.5
July 1993	1.1	2.8	4	3	2.8	4	3	1.8	.7	.3	1.7	6
<b>PAD District IV Average</b>												
August 1993	3	.9	2	3	8	.2	.4	2.5	2	3	1.3	2
July 1993	4	1.0	2	3	8	.2	3	1.5	3	3	1.4	.2
<b>Colorado</b>												
August 1993	6	3.3	4	4	2.1	.3	4	1.6	2	3	3.1	2
July 1993	8	1.6	5	3	1.6	.3	.3	.9	.4	.3	2.7	2
<b>Idaho</b>												
August 1993	6	6	3	.6	6	.3	NA	NA	NA	1.5	.7	3
July 1993	.5	6	.5	.6	6	.5	.5	-	.5	1.3	8	4
<b>Montana</b>												
August 1993	4	2.0	.4	4	2.0	5	NA	NA	-	4	1.3	.4
July 1993	.3	1.0	.4	3	2.3	.5	NA	NA	-	3	1.0	.5
<b>Utah</b>												
August 1993	.9	NA	2	1.0	8	.3	.5	-	5	9	NA	4
July 1993	6	1.6	3	8	7	.2	.6	-	1	.7	1.1	.3
<b>Wyoming</b>												
August 1993	7	2.0	2	6	2.0	.3	1.7	NA	.5	.6	3.1	.4
July 1993	5	2.2	1	9	2.1	.3	1.3	NA	NA	.3	2.3	.4
<b>PAD District V Average</b>												
August 1993	5	1.1	2	.4	1.6	2	6	1.9	.2	.3	1.5	.2
July 1993	6	.7	2	3	1.4	.1	.4	1.6	.2	.2	1.5	1
<b>Alaska</b>												
August 1993	2.6	2.6	1.6	5.3	5.5	.8	-	-	-	5.2	4.9	.9
July 1993	2.1	.1	.1	7.2	5.8	1.1	-	-	-	6.6	8.9	.4
<b>Arizona</b>												
August 1993	4	3.1	.3	.4	1.7	.3	2.6	NA	.3	4	1.9	.4
July 1993	.4	2.2	3	3	1.3	.3	2.8	2.0	.5	.4	8	.3
<b>California</b>												
August 1993	NA	-	NA	4	2.2	.3	.7	2.2	.2	.4	2.0	2
July 1993	NA	-	NA	3	1.9	.2	.4	1.7	.2	2	1.8	1
<b>Hawaii</b>												
August 1993	-	-	-	.0	1.0	.3	.0	1.1	.0	.0	1.8	.2
July 1993	-	-	-	.1	3.1	.2	.0	1.6	.1	.1	4.1	.1
<b>Nevada</b>												
August 1993	3.0	NA	8	1.0	1.2	.1	.3	1.7	2	.8	2.1	.1
July 1993	3.5	4.8	.1	1.0	1.9	.3	.3	1.1	.3	.9	1.9	.3
<b>Oregon</b>												
August 1993	.8	1.5	5	.9	1.9	5	NA	-	NA	1.1	1.6	.3
July 1993	9	1.0	5	1.0	1.2	.5	NA	-	-	1.5	8	3
<b>Washington</b>												
August 1993	7	1.8	2	.4	1.4	.2	.0	NA	.0	.7	2.2	.1
July 1993	.9	1.5	2	6	1.1	.2	0	NA	.0	4	1.7	.2

<sup>a</sup> Sales prices shown in Tables 28 and 29.

Dashes (-) = No data reported.

NA = Not available

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Standard errors are not additive. Standard errors that are less than 0.1 and greater than zero are displayed as 0.1.

**Table 52. Standard Errors of No. 2 Distillate Prices<sup>a</sup> by Sales Type,  
PAD District, and Selected States**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>b</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>c</sup>	To Other End Users	Average	
<b>U.S. Average</b>							
August 1993 ..	0.7	0.2	0.5	0.3	0.5	0.2	0.1
July 1993 .....	.6	.2	.5	.4	.4	.2	.1
<b>PAD District I Average</b>							
August 1993 ...	.9	.3	.7	.6	.6	.3	.1
July 1993 .....	.7	.3	.6	.7	.6	.3	.1
<b>Subdistrict IA Average</b>							
August 1993	1.1	.7	.7	.4	.6	.7	.1
July 1993 ...	.8	.6	.8	.4	.8	.7	.1
<b>Connecticut</b>							
August 1993 .	2.9	.8	1.4	1.0	3.1	1.4	.4
July 1993 .	1.7	1.1	2.0	1.0	2.1	1.3	.3
<b>Maine</b>							
August 1993	1.1	.9	1.8	.6	1.5	.6	.3
July 1993 .	.8	.6	1.8	.4	1.3	.5	.3
<b>Massachusetts</b>							
August 1993 ...	1.7	1.6	1.4	1.2	.4	1.7	.1
July 1993 .....	1.4	1.3	1.4	1.3	.7	1.5	.1
<b>New Hampshire</b>							
August 1993 .....	1.1	.7	2.4	.6	2.0	.8	.6
July 1993 .....	.8	.8	1.7	.4	4.2	.7	.4
<b>Rhode Island</b>							
August 1993 .....	3.7	.6	.8	.9	.7	2.0	.1
July 1993 .....	3.0	.8	1.1	.8	.4	1.8	.1
<b>Vermont</b>							
August 1993 .	.9	.6	.8	.4	2.1	1.0	.3
July 1993 .....	.6	.5	1.2	.4	1.7	.7	.1
<b>Subdistrict IB Average</b>							
August 1993 .....	1.4	.5	1.2	.5	.9	.6	.1
July 1993 .....	1.2	.6	1.1	.4	.9	.5	.1
<b>Delaware</b>							
August 1993 ..	1.9	.8	1.5	1.4	1.5	.6	.5
July 1993 .....	2.3	.8	1.6	.9	2.1	.8	.1
<b>District of Columbia</b>							
August 1993 .....	.7	.6	NA	NA	.0	.4	.0
July 1993 .....	.1	.7	NA	NA	.0	.5	.0
<b>Maryland</b>							
August 1993 .	1.1	1.0	1.5	1.2	1.6	.9	.3
July 1993 .....	.8	.8	1.4	.8	2.1	.9	.2
<b>New Jersey</b>							
August 1993 .....	2.4	.8	3.1	1.0	2.0	.8	.1
July 1993 ...	2.1	.9	1.9	1.2	2.4	.9	.1
<b>New York</b>							
August 1993 .....	2.7	1.4	2.1	1.1	.7	1.6	.1
July 1993 .....	2.4	1.6	2.6	1.0	1.0	1.3	.1
<b>Pennsylvania</b>							
August 1993 ....	.7	.5	2.1	.4	1.8	.6	.2
July 1993 .....	.7	.4	1.6	.3	1.7	.5	.2
<b>Subdistrict IC Average</b>							
August 1993 .	1.3	.6	1.0	1.0	.8	.5	.2
July 1993 .....	1.1	.5	.9	1.1	.8	.5	.1
<b>Virginia</b>							
August 1993 ...	.9	1.6	2.3	.4	1.8	.8	.1
July 1993 .....	1.2	1.1	2.1	.5	1.3	.6	.1
<b>West Virginia</b>							
August 1993 .....	2.5	.3	.5	1.0	1.1	.3	.4
July 1993 .....	2.2	.4	.7	1.4	1.0	.3	.4
<b>PAD District II Average</b>							
August 1993 .....	.8	.3	.8	.3	.8	.4	.1
July 1993 .....	1.2	.4	.8	.4	.6	.4	.1
<b>Illinois</b>							
August 1993 .....	2.1	1.0	2.7	.6	1.8	1.2	.3
July 1993 .....	1.7	1.2	2.9	.5	1.6	1.4	.2

See footnotes at end of table.

**Table 52. Standard Errors of No. 2 Distillate Prices<sup>a</sup> by Sales Type,  
PAD District, and Selected States (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Sales to End Users						Sales for Resale
	To Residential Consumers <sup>b</sup>	To Commercial/ Institutional Consumers	To Industrial Consumers	Sales Through Company Outlets <sup>c</sup>	To Other End Users	Average	
<b>Indiana</b>							
August 1993 . . . . .	1.5	0.5	1.9	1.4	2.4	1.0	0.2
July 1993 . . . . .	1.8	.4	1.2	1.0	1.6	.6	.3
<b>Michigan</b>							
August 1993 . . . . .	1.9	1.7	2.6	1.9	2.5	1.6	.6
July 1993 . . . . .	2.0	1.1	1.9	1.2	2.1	1.1	.5
<b>Minnesota</b>							
August 1993 . . . . .	1.5	1.3	1.9	1.4	1.7	.9	.5
July 1993 . . . . .	1.3	1.2	2.0	.9	.9	.9	.5
<b>Ohio</b>							
August 1993 . . . . .	1.1	.6	1.2	.4	2.2	.5	.1
July 1993 . . . . .	2.1	1.4	1.1	.3	1.7	.6	.2
<b>Wisconsin</b>							
August 1993 . . . . .	3.0	2.7	2.2	.9	2.2	1.1	.2
July 1993 . . . . .	4.6	2.0	2.0	1.0	1.7	1.0	.2
<b>PAD District III Average</b>							
August 1993 . . . . .	4.1	.5	.8	.6	1.3	.5	.1
July 1993 . . . . .	3.3	.4	.8	.7	1.1	.5	.1
<b>PAD District IV Average</b>							
August 1993 . . . . .	1.6	1.0	1.5	1.1	.9	.8	.2
July 1993 . . . . .	.9	1.0	.8	.7	1.2	.7	.2
<b>Idaho</b>							
August 1993 . . . . .	2.2	1.7	1.6	4.0	1.7	1.4	.2
July 1993 . . . . .	1.2	.9	2.0	2.7	1.2	1.1	.1
<b>PAD District V Average</b>							
August 1993 . . . . .	1.9	.8	1.4	.6	1.0	.6	.2
July 1993 . . . . .	1.8	.7	1.2	.6	.9	.5	.1
<b>Alaska</b>							
August 1993 . . . . .	3.1	5.5	2.7	3.1	1.1	2.4	.9
July 1993 . . . . .	2.9	2.5	4.3	2.7	3.5	1.6	.1
<b>Oregon</b>							
August 1993 . . . . .	1.4	1.4	1.8	1.3	2.5	1.1	.4
July 1993 . . . . .	1.6	1.4	2.3	2.1	2.2	.9	.3
<b>Washington</b>							
August 1993 . . . . .	1.1	1.8	3.7	2.1	1.9	1.2	.1
July 1993 . . . . .	1.8	1.4	3.0	2.0	2.3	1.3	.2

<sup>a</sup> Sales prices shown in Table 38.

<sup>b</sup> No. 2 fuel oil only.

<sup>c</sup> No. 2 diesel fuel only.

NA = Not available

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Standard errors are not additive. Standard errors that are less than 0.1 and greater than zero are displayed as 0.1.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 53. Standard Errors of No. 2 Fuel Oil Prices,<sup>a</sup> by Sales Type,  
PAD District, and Selected States**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	To Residential Consumers	To Commercial/ Institutional Consumers	To Industrial Consumers	To Other End Users	Average	
<b>U.S. Average</b>						
August 1993 . . . . .	0.7	0.6	0.6	0.8	0.5	0.1
July 1993 . . . . .	.6	.8	.9	.8	.5	.1
<b>PAD District I Average</b>						
August 1993 . . . . .	.9	.9	.9	.9	.7	.1
July 1993 . . . . .	.7	1.1	.6	.8	.6	.1
<b>Subdistrict IA Average</b>						
August 1993 . . . . .	1.1	.6	.6	.3	.9	.2
July 1993 . . . . .	.8	.9	.6	.6	.8	.1
<b>Connecticut</b>						
August 1993 . . . . .	2.9	1.6	1.2	1.7	2.1	.5
July 1993 . . . . .	1.7	1.7	1.6	4.5	1.5	.4
<b>Maine</b>						
August 1993 . . . . .	1.1	.8	.4	NA	.5	.1
July 1993 . . . . .	.8	.4	.5	NA	.6	.2
<b>Massachusetts</b>						
August 1993 . . . . .	1.7	1.2	1.6	.3	2.0	.1
July 1993 . . . . .	1.4	1.9	1.5	.6	1.7	.1
<b>New Hampshire</b>						
August 1993 . . . . .	1.1	.9	2.4	NA	1.2	.1
July 1993 . . . . .	.8	.7	2.4	NA	.8	.1
<b>Rhode Island</b>						
August 1993 . . . . .	3.7	2.1	2.6	NA	2.9	.1
July 1993 . . . . .	3.0	1.8	3.1	NA	2.5	.1
<b>Vermont</b>						
August 1993 . . . . .	.9	1.0	.2	NA	1.1	.1
July 1993 . . . . .	.6	.6	.6	NA	.8	.1
<b>Subdistrict IB Average</b>						
August 1993 . . . . .	1.4	1.4	.6	.7	1.1	.1
July 1993 . . . . .	1.2	2.5	.6	.7	1.0	.1
<b>Delaware</b>						
August 1993 . . . . .	1.9	1.0	NA	.3	1.6	.8
July 1993 . . . . .	2.3	1.1	NA	.3	2.2	.2
<b>District of Columbia</b>						
August 1993 . . . . .	.7	.3	-	NA	.7	.0
July 1993 . . . . .	1	.6	NA	NA	.3	.0
<b>Maryland</b>						
August 1993 . . . . .	1.1	1.1	2.2	.3	1.4	.1
July 1993 . . . . .	.8	1.3	1.7	.5	.8	.1
<b>New Jersey</b>						
August 1993 . . . . .	2.4	.8	.2	NA	2.0	.1
July 1993 . . . . .	2.1	.9	1.1	NA	2.1	.1
<b>New York</b>						
August 1993 . . . . .	2.7	3.1	.7	.4	2.3	.1
July 1993 . . . . .	2.4	4.4	.4	.3	1.9	.1
<b>Pennsylvania</b>						
August 1993 . . . . .	.7	1.2	2.2	1.8	.5	.1
July 1993 . . . . .	.7	1.3	1.2	1.4	.7	.1
<b>Subdistrict IC Average</b>						
August 1993 . . . . .	1.3	1.7	2.5	1.6	1.0	.1
July 1993 . . . . .	1.1	1.5	1.7	1.5	.9	.1
<b>Virginia</b>						
August 1993 . . . . .	.9	.7	6.3	1.9	1.2	.1
July 1993 . . . . .	1.2	1.2	4.8	1.3	1.3	.1
<b>West Virginia</b>						
August 1993 . . . . .	2.6	.8	2.0	1.7	1.4	.1
July 1993 . . . . .	2.2	1.6	2.0	.7	1.2	.1
<b>PAD District II Average</b>						
August 1993 . . . . .	.8	.4	.6	1.8	.6	.1
July 1993 . . . . .	1.2	1.2	.6	1.8	.8	.1
<b>Illinois</b>						
August 1993 . . . . .	2.1	1.6	.8	2.9	1.9	.1
July 1993 . . . . .	1.7	1.7	1.8	3.4	2.4	.1

See footnotes at end of table.

**Table 53. Standard Errors of No. 2 Fuel Oil Prices,<sup>a</sup> by Sales Type, PAD District, and Selected States (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Sales to End Users					Sales for Resale
	To Residential Consumers	To Commercial/ Institutional Consumers	To Industrial Consumers	To Other End Users	Average	
<b>Indiana</b>						
August 1993 . . . . .	1.5	NA	2.5	5.3	1.6	0.1
July 1993 . . . . .	1.8	NA	.9	4.3	1.6	.1
<b>Michigan</b>						
August 1993 . . . . .	1.9	0.6	2.3	4.8	1.2	.4
July 1993 . . . . .	2.0	.8	1.8	3.5	1.5	.3
<b>Minnesota</b>						
August 1993 . . . . .	1.5	2.0	.6	.5	2.6	.1
July 1993 . . . . .	1.3	2.5	.4	.7	3.0	.1
<b>Ohio</b>						
August 1993 . . . . .	1.1	.2	.9	1.6	1.3	.1
July 1993 . . . . .	2.1	3.6	.9	1.2	1.8	.1
<b>Wisconsin</b>						
August 1993 . . . . .	3.0	2.9	1.2	3.8	2.3	.3
July 1993 . . . . .	4.6	2.2	1.4	6.3	4.1	.2
<b>PAD District III Average</b>						
August 1993 . . . . .	4.1	.2	.2	.2	.6	.1
July 1993 . . . . .	3.3	.1	.6	NA	.7	.1
<b>PAD District IV Average</b>						
August 1993 . . . . .	1.6	.4	NA	2.4	1.3	.1
July 1993 . . . . .	.9	.5	NA	NA	1.3	.1
<b>Idaho</b>						
August 1993 . . . . .	2.2	1.1	-	NA	1.1	.0
July 1993 . . . . .	1.2	2.2	-	NA	.8	.0
<b>PAD District V Average</b>						
August 1993 . . . . .	1.9	4.0	2.9	2.4	2.3	.1
July 1993 . . . . .	1.8	2.5	7.1	3.4	2.2	.1
<b>Alaska</b>						
August 1993 . . . . .	3.1	NA	6.2	5.3	3.9	.3
July 1993 . . . . .	2.9	6.4	6.6	3.3	3.6	.1
<b>Oregon</b>						
August 1993 . . . . .	1.4	4.2	NA	NA	1.9	.1
July 1993 . . . . .	1.6	5.5	NA	NA	2.1	.1
<b>Washington</b>						
August 1993 . . . . .	1.1	1.4	1.2	.7	2.6	.1
July 1993 . . . . .	1.8	1.2	1.0	1.3	2.8	.1

<sup>a</sup> Sales prices shown in Table 39.

Dashes (-) = No data reported

NA = Not available.

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Standard errors are not additive. Standard errors that are less than 0.1 and greater than zero are displayed as 0.1.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."

**Table 54. Standard Errors of Residual Fuel Oil Prices,<sup>a</sup> by PAD District and Selected States**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>U.S. Average</b>						
August 1993 .....	0.6	0.4	0.2	0.1	0.2	0.2
July 1993 .....	2	1	.1	.1	1	.1
<b>PAD District I Average</b>						
August 1993 .....	3	.1	4	.1	3	.1
July 1993 .....	.2	1	.1	0	1	.1
<b>Subdistrict IA Average</b>						
August 1993 .....	1	.0	.1	NA	.1	0
July 1993 .....	1	0	.2	NA	.1	.0
<b>Connecticut</b>						
August 1993 .....	0	NA	NA	-	2	NA
July 1993 .....	1	NA	NA	-	1	NA
<b>Maine</b>						
August 1993 .....	0	NA	0	NA	0	0
July 1993 .....	0	NA	0	NA	0	NA
<b>Massachusetts</b>						
August 1993 .....	.1	0	0	NA	.1	0
July 1993 .....	.1	0	.4	NA	2	.0
<b>New Hampshire</b>						
August 1993 .....	NA	-	.0	-	.0	-
July 1993 .....	.0	-	.2	-	.1	-
<b>Rhode Island</b>						
August 1993 .....	.0	NA	-	-	0	NA
July 1993 .....	.0	NA	-	-	.0	NA
<b>Subdistrict IB Average</b>						
August 1993 .....	5	1	.5	NA	.4	2
July 1993 .....	4	.1	.2	.0	.3	1
<b>Delaware</b>						
August 1993 .....	.1	NA	.1	NA	.1	NA
July 1993 .....	.1	NA	.1	NA	.1	NA
<b>Maryland</b>						
August 1993 .....	.1	.1	.4	NA	.1	.1
July 1993 .....	NA	NA	.4	NA	.1	NA
<b>New Jersey</b>						
August 1993 .....	.1	.0	.1	.0	2	.0
July 1993 .....	.1	.0	.0	NA	1	0
<b>New York</b>						
August 1993 .....	1.0	1.0	.7	NA	7	NA
July 1993 .....	.7	.2	.3	0	.6	.2
<b>Pennsylvania</b>						
August 1993 .....	.6	0	.1	NA	.3	.0
July 1993 .....	2	NA	.0	0	.1	.0
<b>Subdistrict IC Average</b>						
August 1993 .....	.1	NA	.8	.1	.6	.6
July 1993 .....	.0	NA	.1	.0	.1	.0
<b>Florida</b>						
August 1993 .....	.1	NA	1.1	NA	.8	.2
July 1993 .....	.0	-	.0	NA	.0	NA
<b>Georgia</b>						
August 1993 .....	-	NA	.0	NA	.0	NA
July 1993 .....	-	-	.1	-	.1	-
<b>North Carolina</b>						
August 1993 .....	NA	-	.0	.0	.0	.0
July 1993 .....	NA	-	.0	.0	-	-
<b>South Carolina</b>						
August 1993 .....	NA	-	NA	NA	-	-
July 1993 .....	NA	-	NA	-	-	-
<b>Virginia</b>						
August 1993 .....	.1	NA	.4	.0	-	-
July 1993 .....	.0	NA	.0	.0	-	-
<b>PAD District II Average</b>						
August 1993 .....	.4	.5	.7	.0	-	-
July 1993 .....	.5	.0	.0	.0	-	-

See footnotes at end of table.

**Table 54. Standard Errors of Residual Fuel Oil Prices,<sup>a</sup> by PAD District and Selected States (Continued)**  
(Cents per Gallon, Excluding Taxes)

Geographic Area Month	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Residual Fuel Oil Sulfur Content Greater Than 1 Percent		Average	
	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale
<b>Illinois</b>						
August 1993	NA	NA	NA	NA	0.0	0.0
July 1993	NA	NA	NA	NA	0	.0
<b>Indiana</b>						
August 1993	0.0	-	0.0	NA	0	NA
July 1993	0	NA	0	NA	.0	NA
<b>Michigan</b>						
August 1993	.5	NA	9	-	.5	NA
July 1993	.5	0.0	.0	NA	.5	.0
<b>Minnesota</b>						
August 1993	NA	-	0	NA	.0	NA
July 1993	-	-	0	NA	0	NA
<b>Ohio</b>						
August 1993	NA	NA	0	NA	0	.0
July 1993	NA	NA	0	NA	0	.0
<b>PAD District III Average</b>						
August 1993	NA	1.1	2	0.1	.2	.4
July 1993	NA	1	.4	0	3	.1
<b>Alabama</b>						
August 1993	-	-	1	NA	.1	NA
July 1993	NA	NA	.0	NA	.1	NA
<b>Louisiana</b>						
August 1993	NA	2	1	.2	.1	.2
July 1993	NA	0	1	.0	.1	0
<b>Mississippi</b>						
August 1993	-	NA	1	NA	1	NA
July 1993	-	NA	0	NA	0	0
<b>Texas</b>						
August 1993	NA	1.0	4	1	.4	.6
July 1993	-	1	7	.0	.7	.1
<b>PAD District IV Average</b>						
August 1993	-	.0	.0	NA	.0	.0
July 1993	-	0	3	NA	3	.0
<b>PAD District V Average</b>						
August 1993	1	2	.1	1	1	.1
July 1993	1	3	1	1	1	1
<b>California</b>						
August 1993	1.8	4	.1	.1	.2	2
July 1993	8	3	1	1	2	1
<b>Hawaii</b>						
August 1993	NA	NA	0	NA	.0	NA
July 1993	NA	-	.0	NA	0	NA
<b>Oregon</b>						
August 1993	-	-	.0	NA	0	NA
July 1993	-	-	0	.1	.0	.1
<b>Washington</b>						
August 1993	NA	-	.0	.0	1	.0
July 1993	NA	-	.1	.0	.1	.0

▪ Sales prices shown in Table 41.

Dashes (-) = No data reported.

NA = Not available

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual. Standard errors are not additive. Standard errors that are less than 0.1 and greater than zero are displayed as 0.1.

Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," and EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report."



Table 55. Response Rate by Entity, PAD District, and State  
(Percent)

Geographic Area	Refiners		Resellers and Retailers		Suppliers	
	August 1993	July 1993	August 1993	July 1993	August 1993	July 1993
U.S. Average	95.9	95.8	90.0	95.5	95.8	97.4
PAD District I Average	95.4	94.2		95.8	96.3	97.6
Subdistrict IA Average	92.4	91.8	91.2	95.7	96.0	97.0
Connecticut	95.0	90.9	94.8	98.0	94.7	97.6
Maine	94.1	88.9	89.5	95.8	94.3	94.6
Massachusetts	89.5	88.9	88.1	95.4	97.6	97.6
New Hampshire	94.1	94.4	82.7	93.6	97.4	97.5
Rhode Island	88.9	94.4	90.9	93.9	97.3	97.3
Vermont	92.8	93.8	93.0	96.6	93.9	97.2
Subdistrict IB Average	95.4	94.8	91.5	95.9	96.7	98.2
Delaware	100.0	100.0	90.7	96.4	96.5	100.0
District of Columbia	91.7	100.0	93.1	96.4	100.0	100.0
Maryland	92.0	92.0	91.7	98.2	95.7	97.8
New Jersey	93.3	93.3	89.2	92.0	96.4	98.2
New York	97.0	90.9	93.6	96.8	96.8	98.4
Pennsylvania	97.2	97.2	90.7	95.6	96.8	96.8
Subdistrict IC Average	97.0	95.0	92.0	95.7	96.0	97.7
Florida	97.0	97.0	93.2	96.5	96.2	98.1
Georgia	97.3	97.2	95.6	97.8	96.1	98.0
North Carolina	97.1	91.4	90.5	94.4	96.2	96.3
South Carolina	96.8	96.8	92.5	91.0	95.5	97.9
Virginia	97.4	92.3	89.8	96.1	96.5	98.3
West Virginia	96.1	96.3	92.3	98.7	95.0	97.5
PAD District II Average	96.8	96.9	89.6	95.6	96.6	97.7
Illinois	97.2	97.2	89.9	95.3	96.4	98.2
Indiana	97.3	97.3	90.0	96.6	96.5	98.2
Iowa	90.9	97.0	88.1	96.2	96.0	93.9
Kansas	100.0	97.7	89.8	95.6	98.2	100.0
Kentucky	97.1	94.3	86.6	94.0	96.0	98.0
Michigan	96.4	96.9	88.5	95.1	95.6	97.9
Minnesota	97.0	97.0	90.1	94.0	97.7	95.3
Missouri	97.3	94.6	80.9	94.4	94.6	98.2
Nebraska	100.0	100.0	93.1	96.1	100.0	100.0
North Dakota	93.3	96.7	96.7	100.0	97.3	97.1
Ohio	94.6	94.4	94.0	97.0	96.4	98.2
Oklahoma	97.9	97.7	85.5	96.0	96.4	94.7
South Dakota	100.0	100.0	89.3	93.4	97.2	100.0
Tennessee	94.3	97.4	90.9	94.9	93.9	98.1
Wisconsin	96.7	96.5	94.0	97.0	97.6	97.5
PAD District III Average	96.3	95.9	89.5	95.0	95.2	96.8
Alabama	97.4	97.3	95.7	98.9	95.7	97.9
Arkansas	97.4	97.4	90.2	95.2	93.8	97.9
Louisiana	98.1	98.1	88.8	94.3	94.9	96.7
Mississippi	97.6	97.6	90.7	95.3	96.2	96.3
New Mexico	96.5	96.5	88.5	91.4	94.7	97.4
Texas	92.8	91.2	85.0	94.2	95.5	95.7
PAD District IV Average	95.0	95.7	90.0	95.1	93.4	96.7
Colorado	97.1	97.0	92.2	97.4	95.5	97.7
Idaho	94.1	94.1	88.2	94.1	91.3	95.6
Montana	94.1	93.8	96.0	97.9	95.0	94.7
Utah	91.3	95.6	84.5	91.4	88.9	96.4
Wyoming	96.4	96.3	89.3	94.3	94.4	97.2
PAD District V Average	94.9	96.2	87.6	94.8	93.4	96.5
Alaska	93.3	93.3	87.5	100.0	87.5	94.1
Arizona	96.4	96.4	89.5	93.0	94.4	97.3
California	97.4	97.4	87.5	97.3	94.0	95.8
Hawaii	87.5	100.0	75.0	85.7	100.0	100.0
Nevada	95.2	95.2	90.4	92.0	92.6	96.3
Oregon	92.0	96.0	85.7	91.9	93.5	96.8
Washington	95.2	95.4	87.5	95.6	92.8	96.5

Note: Values shown for the current month are preliminary. Values shown for previous month are revised. Data are final upon publication in the Petroleum Marketing Annual.  
Sources: Energy Information Administration Form EIA-782A, "Refiners/Gas Plant Operators' Monthly Petroleum Product Sales Report," EIA-782B, "Reseller/Retailers' Monthly Petroleum Product Sales Report," and EIA-782C, "Monthly Report of Petroleum Products Sold into States for Consumption."



## **Explanatory Notes**



# Explanatory Notes

## The EIA-782 Survey

### Background

The EIA-782 survey was implemented to fulfill the data requirements necessary to meet Energy Information Administration (EIA) legislative mandates and user community data needs. The requirements include petroleum product price, market distribution, demand (or sales), and product supply data, which are needed for a complete evaluation of petroleum market performance. In the past, these data requirements were fulfilled through the following surveys:

- EIA-460: "Petroleum Industry Monthly Report for Product Prices"
- EIA-9A: "No. 2 Distillate Price Monitoring Report"
- EIA-25: "Prime Supplier's Monthly Report"
- FEA-P306: "Refiner/Importer Monthly Report of Petroleum Product Distribution"
- FEA-P314: "Monthly Survey of Distillate and Residual Fuel Oil Sales to Ultimate Consumers"
- FEA-P315: "Monthly Survey of Propane Sales Volume to Ultimate Consumers"
- SG-1, 2, 4, and 7: "Survey of Gallonage Sales of Gasoline."

The President's Executive Order 12287 on decontrol in January 1981, and the expiration of the Emergency Petroleum Allocation Act (EPAA) on September 30, 1981, brought changes in EIA's legislative mandates and data requirements. These changes, along with EIA's previous commitment to consolidate its data collection, motivated the development of an EIA survey which eliminated regulatory data elements and integrated, consolidated, and continued the collection of basic statistical elements from previous forms.

Comments solicited from the petroleum industry and data users led to the development of this new consolidated survey--the Form EIA-782 series, which includes the Form EIA-782A, *Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report*, Form EIA-782B, *Reseller/Retailers' Monthly Petroleum Prod-*

*uct Sales Report*, and Form EIA-782C, *Monthly Report of Petroleum Products Sold into States for Consumption*.

The Form EIA-782A replaced the refiner and gas plant operator portion of the Form EIA-460. Major changes include deleting 10 product categories and redefining and regrouping other product categories formerly on the Form EIA-460 survey, shifting reporting from a national to a State-specific basis, and revising respondent lists and respondent groupings used for publication. The Form EIA-782A collects refiner and gas plant operator monthly price and volume data on a State level for various petroleum products for retail and wholesale marketing categories, with more detailed retail customer sales categories for No. 2 distillate.

The Form EIA-782B replaced the nonrefiner portions of the Form EIA-9A and the Form EIA-460. Major changes to the Form EIA-9A included deleting purchase, inventory, storage capacity, and tax data; regrouping customer sales categories; and revising the frame and sample.

The Form EIA-782C replaced Form EIA-25. Changes made include deletion of some product categories and the regrouping of others.

### Discussion of Sample Design

The Form EIA-782A was sent to a census of refiners and gas plant operators. Respondents were selected with certainty due to their small number and because of the relative size of their sales volume.

The Form EIA-782B was sent to a scientifically selected sample of motor gasoline resellers, and distillate and residual fuel oil resellers and retailers. The Form EIA-863, "Petroleum Product Sales Identification Survey," served as the basis of the sampling frame of dealers. Information obtained from the Form EIA-863 was supplemented with information from the Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report," to provide separate stratification schemes that vary by product and State. Dealers selling in four or more States and company/State units comprising 5 percent or more of sales in that State were selected with certainty. The remaining company/State units on

the frame were stratified within geographic area and sales type by urban/rural designation and volume of product sales. The geographic areas were defined as (a) the 24 States in which No. 2 distillate was a significant heating source and 51 States for residual and motor gasoline, or as (b) the PAD Districts for districts where not all State estimates are provided. The type-of-sale classifications were retail and resale for motor gasoline and residual fuel oil, and residential and non-residential retail and wholesale for distillate. Three volume-of-sales classifications (zero, low, and high) were defined with volume boundaries and numbers of strata, differing by State, sales type, and product.

The design of the EIA-782B sample was based on seven target variables: total retail motor gasoline, total wholesale motor gasoline, residential No. 2 fuel oil, other retail No. 2 fuel oil, total wholesale No. 2 fuel oil, total retail residual fuel oil, and total wholesale residual fuel oil. The required level of accuracy for each target variable was defined by a volume coefficient of variation (CV) of 15 percent for No. 2 distillate and 10 percent for motor gasoline and residual fuel oil, determined at the publishable State level (24 States for distillate, 51 for motor gasoline and residual). Studies on the relationship of volume CV to price CV have shown that this will produce price CVs of less than 1 percent. The reliability of current month estimates will vary from these goals due to the deterioration of the frame over time and the changing distributions of price and volume.

The samples resulting from the separate stratification schemes were combined by means of a linked-selection procedure designed to maximize the overlap among samples. This procedure produced a sample size of approximately 2,788 companies. Each company selected was required to file completed survey forms for all States in which it had petroleum sales.

The Form EIA-782C was sent to all prime suppliers of any of the selected products on the EIA-782C. A prime supplier is a firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users. They were selected with certainty due to their small number and the relative size of their sales volumes.

## Discussion of the Sampling Frame

The Form EIA-782A mailing list consisted of all companies included on the mailing lists for the Form EIA-87, "Refiners Report," and the Form EIA-64, "Natural Gas Liquids Operations Report," in addition to those companies identified as refiners or gas plant operators on the Form EIA-460, "Petroleum Industry Monthly Report for Product Prices," name and address

file. The records from these combined files provided comprehensive coverage of the target population of refiners and gas plant operators. Currently, there are 161 companies responding to the EIA-782A.

The EIA-863 data base provided the sampling frame for the EIA-782B survey. The EIA-863, "Petroleum Product Sales Identification Survey," was mailed to approximately 27,000 companies in January 1989, in order to collect 1988 State level sales volume data for No. 2 distillate, residual, and motor gasoline. The No. 2 distillate data were further identified by residential/nonresidential end-use and non-end-use sales, while the residual and motor gasoline data were identified by end-use and non-end-use sales. The mailing list for the EIA-863 survey was constructed by merging and unduplicating the previous master frame file and approximately 47 State and commercial lists.

Data from the 1988 EIA-821, "Annual Fuel Oil and Kerosene Sales Report" survey were merged with data from the EIA-863 survey to yield a combined file. A transformed and edited version of this file was created to form the sample file used to design and select the EIA-782B sample.

NOTE: Truck stops selling No. 2 diesel fuel were not specifically included in the frame. Therefore, the EIA-782B end-use category, "sales through company outlets," does not incorporate all sales of No. 2 distillate.

The initial Form EIA-782C mailing list consisted of all companies included on the mailing lists for the Forms EIA-782A and EIA-25 and all other firms believed to qualify for reporting. The Form EIA-782C frame currently includes approximately 238 firms.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Nonsampling errors can be attributed to many sources in the collection and processing of data. The accuracy of survey results are determined by the joint effects of sampling and nonsampling errors.

## Measures of Sampling Variability

Tables 15, 16, 28 to 34, 37 to 39, and 41 utilize a particular sample of nonrefiners and, therefore, have sampling error. The remainder of the tables published are based on census data; therefore, there is no error due

to sampling. The particular sample used for the EIA-782B is one of a large number of all possible samples that could have been selected using the same design. Estimates derived from the different samples would differ from each other. The average of these estimates would be close to the estimate derived from a complete enumeration of the population (a census), assuming that a complete enumeration has the same nonsampling errors as the sample survey.

The sampling error, or standard error of the estimate, is a measure of the variability among the estimates from all possible samples of the same size and design and, thus, is a measure of the precision with which an estimate from a particular sample approximates the results of a complete enumeration. Tables 50 to 54 provide the upper bounds of standard errors for sales prices of motor gasoline, No. 2 distillate, No. 2 fuel oil, and residual fuel oil, respectively.

## Nonsampling Errors

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information about all cases in the sample (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the EIA-782 survey respondents and data users results in a more accurate information gathering and reporting process. EIA-782 survey response rates are presented by type of entity in Table 55.

## Imputation and Estimation

Survey data gathered from the respondents invariably contain incomplete reporting, nonresponse, and values that fail editing. These missing data are estimated, or imputed for, as follows. First, for all survey units, the previous month's reported value and the previous month's predicted value are weighted together to yield a predicted value for the current month. The sum of the weighted, predicted values for nonrespondents in the current month is then multiplied by a chain link multiplier (the ratio of the sum of the weighted, re-

ported values for respondents in the current month to the sum of the weighted, predicted values for respondents in the current month). The resulting estimate for nonreported values is then added to the reported values. That is,

$$\hat{V}_t = \sum_R W_i^* V_{i,t} + \frac{\sum_R W_i V_{i,t}}{\sum_R W_i \tilde{V}_{i,t}} \cdot \sum_{NR} W_i^* \tilde{V}_{i,t} \quad (1)$$

Where

$$W_i^* = \frac{N}{\sum_{i=1}^n W_i} (W_i)$$

$W_i$  = the weight for company i. For resellers/retailers responding to EIA-782B,  $W_i$  is inversely proportional to the probability of inclusion. For all certainty units  $W_i = 1$ . The certainty units are all respondents to the EIA-782A, the EIA-782C, and the units selected with certainty for the EIA-782B.

$N$  = total number of population units,

$n$  = number of sampled units,

$\sum_R$  = summation across current month respondents,

$\sum_{NR}$  = summation across current month nonrespondents,

$V_{i,t}$  = current month (t) reported volume for company i,

$\hat{V}_t$  = current month (t) estimated total volume,

$\tilde{V}_{i,t}$  = current month (t) predicted volume for company i,

$$\tilde{V}_{i,t} = \alpha \tilde{V}_{i,t-1} + (1 - \alpha) V_{i,t-1} \quad (2)$$

where

$\tilde{V}_{i,t-1}$  = previous month (t-1) predicted volume for company i,

$V_{i,t-1}$  = previous month (t-1) reported volume for company i,

$\alpha$  = constant between 0 and 1, set by product and type of sale.

Analogously, revenue formulas are expressed by replacing  $\hat{V}_t$ ,  $V_{i,t}$ , and  $V_{i,t-1}$  in (1) and (2) with  $\hat{Q}_t$ ,  $Q_{i,t}$ ,  $Q_{i,t}$ , and  $Q_{i,t-1}$ , where Q represents revenue, i.e., price times volume. The resulting estimated revenues

and volumes,  $\hat{Q}_t$  and  $\hat{V}_t$ , are aggregated to the publishable level to yield  $\hat{Q}_t$  and  $\hat{V}_t$ , respectively. Current period volume weighted average price is therefore estimated by:

$$\hat{P}_t = \frac{\hat{Q}_t}{\hat{V}_t} \quad (3)$$

where (t.) represents aggregation to the publishable level for the current month (t).

Multiple product data collection and linked sample selection yield two types of respondents: basic and supplemental. Both types are used for imputation, estimation, and standard errors.

Standard errors are obtained by taking the square root of the variance. The variance is estimated by using an approximation to the variance of an estimated ratio for use with an unequal probability sample.

The variance estimate is:

$$VAR(\hat{P}_t) = \frac{1}{\hat{V}_t^2} \sum_k N_k^2 n_k (1-f_k) \frac{M_k}{(\sum_i W_{ik})^2}$$

where

$N_k$  = the number of population units in group k

$n_k$  = the number of basic and volunteer respondents in group k

$W_{ik}$  = the sampling weight for respondent i in group k

$$f_k = \frac{n_k}{N_k}$$

and  $\hat{P}_t$  and  $\hat{V}_t$  are as previously defined.

The term  $M_k$  is computed as follows:

$$M_k = \frac{\sum_i (M_{ik})^2}{n_k - 1}$$

where

$$M_{ik} = W_{ik} V_{ik} D_{ik} - \frac{W_{ik}}{(\sum_i W_{ik})} \times (\sum_i W_{ik} V_{ik} D_{ik})$$

and

$$D_{ik} = P_{ik} - \hat{P}_t$$

$V_{ik}$  = reported volume for respondent i in group k

$P_{ik}$  = reported price for respondent i in group k

## Data Continuity

The transition from the EIA-460, the EIA-9A, and the EIA-25 to the EIA-782, as discussed under "Background," occurred late in 1982 and involved many changes. These included changes in the reporting forms (such as changes in product definition), the frame, the nonresponse adjustment (imputation procedure), the sample, and the operating system; i.e., the editing and computational procedures. All these changes may be expected to have an impact on the volumes and prices derived from the EIA-782 survey and presented in this publication.

Since the transition from the EIA-460, the EIA-9A, and the EIA-25 to the EIA-782 took place over a period of 4 months, rather than occurring at one time, it was possible to compare data from the predecessor surveys with data from the new survey during the transition period for some data elements. This comparative analysis yielded adjustment factors which reflected the estimated overall effect of the changes.

These adjustment factors were applied to the appropriate predecessor survey prices to yield a backcast estimate. A complete description of the estimation of historical data prior to January 1983 is contained in the feature article of the December 1983(3) issue of the PMM.

The backcast price estimation employed the predecessor survey published price as the initial approximation. The initial approximation, however, frequently represented less aggregated product categories and more aggregated seller/sales categories. Therefore, more comparable product categories were formed by volume weighting the disaggregated predecessor survey product prices. For the EIA-9A, comparable categories were formed by subtracting from the price the average taxes reported. Comparable seller/sales categories were formed by multiplying the predecessor price by the ratio of the EIA-782 price for the category to be estimated divided by the volume weighted prices for the aggregate of the EIA-782 categories most comparable to the predecessor category. That is,

$$\hat{P}_{460,i} = \hat{P}_{460,j} \frac{\hat{P}_{782,i}}{\hat{P}_{782,j}}$$



where i represents the EIA-782 category to be backcast and j represents the most similar category on the predecessor survey.

The backcast price series were estimated by multiplying the estimate for the previous time period from the predecessor survey by an adjustment factor:

$$\hat{P}_{782,i,t} = \hat{P}_{Predecessor,i,t} \times (\text{Adjustment Factor})$$

where t = reference month.

Adjustment factors were computed by dividing the EIA-782 December price by the derived December predecessor price for comparable categories:

$$\text{Adjustment Factor} = \frac{\hat{P}_{782,i,December}}{\hat{P}_{Predecessor,i,December}}$$

The EIA-782 December 1982 price for all respondents had to be estimated since not all of the EIA-782 respondents were reporting in December. This estimate was based on the average of the ratios of the prices for the December respondents to the prices for all respondents in January, February, and March of 1982. That is,

$$\hat{P}_{782,i,December} = \hat{P}_{782,i,r,December} \div \frac{\sum_m \frac{\hat{P}_{782,i,r,m}}{\hat{P}_{782,i,m}}}{3}$$

where r = respondents who reported in the December reference month and m = the months of January, February, and March.

Starting with the January 1984 final estimates, prices published are derived using the sample described under "Discussion of Sample Design." Prices published for January through December 1983 were derived using a different sample and design (see the December 1983(3) issue of the PMM for further description). Therefore, there may be some minor discontinuity between the December 1983 and January 1984 estimates.

## Collection Methods

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA within the specified time allotted. For the EIA-782A and B, completed forms must be submitted no later than 30 calendar days after the close of each reference month. For the EIA-782C, completed forms must be submitted no later than 20 calendar days after the close of the reference month. Telephone fol-

low-up calls to nonrespondents begin the day after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

## Data Processing

As EIA-782 forms are received, they are logged into an automated Survey Control File which maintains monthly status codes for each company. The data are reviewed manually and then entered onto the computer files. They are then processed through an automated edit program which detects missing data, inconsistent prices, volumes and prices that significantly differ from those previously reported by the company, and outlying values that will affect published estimates. Data that fail the edits are resolved through telephone calls to the data reporters, and corrections and verification codes are entered on the computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since many tables include row or column totals, some nonsensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

## Relationship of Refiner and Prime Supplier Sales Volumes

The refiner sales volumes collected on the EIA-782A are related to the prime supplier sales volumes collected on the EIA-782C, but conceptual differences exist which cause variations between these data. In general, EIA-782A volumes are intended to reflect *refiner sales* of petroleum products into *all secondary and tertiary markets*, while EIA-782C volumes are designed to measure *prime supplier sales* into only the *local markets of ultimate consumption*. Specifically:

- The reporting universe for the EIA-782C survey is significantly larger than that of the EIA-782A. While nearly all refiners and gas plant operators report on both surveys (a small number do not qualify as prime suppliers), some large, inter-State distributors and retailers, as well as some importers, report only on the EIA-782C.
- EIA-782A respondents are asked only to exclude sales to other refiners (that is, other respondents that comprise the primary market), while EIA-782C respondents are asked to exclude sales to any company that is not a local distributor, local retailer, or end user (DRE). Therefore, EIA-782C respondents are asked not only to exclude sales to refiners, but also to most large inter-State resellers, importers, traders, and retailers who transport product across State boundaries.
- The EIA-782A is designed to gather data on the sales of selected petroleum products made in each State, regardless of where the products are physically located or will be consumed. In contrast, the EIA-782C is designed to collect data reflecting only delivered sales of selected petroleum products into those States where the products are expected to be locally consumed.

Consequently, EIA-782A and EIA-782C volumetric data generally vary at national, regional, and State levels. In particular, differences are expected in States and regions in which major supply origination, pipeline distribution, or transfer points are located. In these States, large volumes of product may change hands

many times, often for eventual shipment outside the State. Since the EIA-782C is intended to measure only those sales into the final local markets of consumption (sales to DREs), all preceding sales are excluded. Furthermore, sales by EIA-782C respondents are reported wherever the product was delivered, which may differ from the State where title transferred. In contrast, the EIA-782A reflects all sales made to secondary resellers, wherever title transfers.

Additionally, the EIA-782C reflects imports by firms that are neither refiners nor gas plant operators, that would not be measured on the EIA-782A unless they were transferred to a distribution chain. This would mostly affect regions with a high level of product imports, such as the New England or Mid-Atlantic States.

Therefore, States with major refining areas, such as Texas or California, generally show higher prime supplier sales, since some of the volumes reported on the EIA-782A are excluded on the EIA-782C or are reported in different States. Conversely, net consuming States (e.g., most PAD District I and PAD District II States) may show larger prime supplier sales on the EIA-782C due to inter-State movements or imports by resellers and/or differences in State of delivery versus title transfer. However, this may be partially or entirely offset by some refiners reporting larger sales volumes on the EIA-782A than on the EIA-782C (due to fewer exclusions taken on the EIA-782A).

In summary, caution should be exercised when comparing sales volumes between refiners and prime suppliers. Whereas EIA-782A data reflect the marketing of product by refiners to non-refiners where the sale occurs, EIA-782C data reflect prime supplier sales to local distributors, local retailers, and end users where the product is delivered. Therefore, the EIA-782A and EIA-782C surveys differ by the respondents reporting (refiners versus prime suppliers), the types of sales reported (sales to non-refiners versus sales to DREs), and the location of the reported sales (point of title transfer versus destination of the sale). While refiner volumes and prime supplier sales are related, the complex nature of the U.S. distribution system will result in varying degrees of dissimilarity between them.

**Table EN1. Federal and State Motor Fuel Taxes<sup>1</sup>**  
(Cents per Gallon)

	Motor Gasoline	Diesel Fuel	Gasohol		Motor Gasoline	Diesel Fuel	Gasohol
Federal <sup>2</sup> .....	14.10	20.10	8.70	Mississippi <sup>4</sup> .....	18.40	18.40	18.40
Average State Tax ...	18.77	18.66	18.24	Missouri <sup>4</sup> .....	13.10	13.10	13.10
Alabama <sup>4</sup> .....	18.00	19.00	18.00	Montana <sup>4</sup> .....	25.68	25.68	25.68
Alaska .....	8.00	8.00	8.00	Nebraska <sup>1</sup> .....	24.30	24.30	24.30
Arizona .....	19.00	19.00	19.00	Nevada <sup>4</sup> .....	23.60	27.60	23.60
Arkansas .....	18.70	18.70	18.70	New Hampshire .....	18.80	18.80	18.80
California <sup>3 4</sup> .....	17.60	17.60	17.60	New Jersey .....	14.50	17.50	14.50
Colorado .....	22.31	20.81	22.31	New Mexico <sup>4</sup> .....	23.00	19.00	23.00
Connecticut <sup>3</sup> .....	29.00	18.00	28.00	New York <sup>3 4</sup> .....	22.89	24.89	22.89
Delaware .....	19.00	19.00	19.00	North Carolina .....	22.25	22.25	22.25
District of Columbia ...	20.00	20.00	20.00	North Dakota .....	17.25	17.25	17.25
Florida <sup>4</sup> .....	11.80	11.80	11.80	Ohio .....	22.00	22.00	22.00
Georgia <sup>3</sup> .....	7.60	7.60	7.60	Oklahoma .....	17.00	14.00	17.00
Hawaii <sup>3 4</sup> .....	16.00	16.00	16.00	Oregon <sup>4</sup> .....	24.00	24.00	19.00
Idaho .....	22.00	22.00	18.00	Pennsylvania .....	22.35	22.35	22.35
Illinois <sup>3 4</sup> .....	19.30	21.80	19.30	Rhode Island .....	28.00	28.00	28.00
Indiana <sup>3</sup> .....	15.08	16.08	15.08	South Carolina <sup>4</sup> .....	16.75	16.75	16.75
Iowa <sup>3</sup> .....	20.00	22.50	19.00	South Dakota .....	20.00	20.00	19.00
Kansas .....	18.02	20.02	18.02	Tennessee .....	21.40	18.40	21.00
Kentucky .....	15.40	12.40	15.40	Texas .....	20.00	20.00	20.00
Louisiana <sup>3</sup> .....	20.03	20.03	20.03	Utah .....	19.50	19.50	19.50
Maine .....	19.00	20.00	19.00	Vermont .....	16.00	17.00	16.00
Maryland .....	23.50	24.25	23.50	Virginia <sup>3 4</sup> .....	17.70	16.20	17.70
Massachusetts .....	21.00	21.00	21.00	Washington <sup>4</sup> .....	23.12	23.12	19.44
Michigan <sup>3</sup> .....	15.88	15.88	15.88	West Virginia .....	20.50	20.50	20.50
Minnesota .....	20.00	20.00	18.00	Wisconsin .....	25.40	25.40	25.40
				Wyoming .....	9.00	9.00	5.00

<sup>1</sup> This figure lists rates of general application (including, but not limited to, excise taxes, environmental taxes, special taxes, and inspection fees), exclusive of county and local taxes. Rates are also exclusive of any State taxes based on gross or net receipts. The State rates are effective as of July 1, 1993.

We are aware of the following rate changes that will take effect in the next 6 months: Delaware: on September 1, 1993 all products will increase to 23.0 cents per gallon; Hawaii: on August 1, 1993 the Maui LOTS will increase to 11 cents per gallon.

<sup>2</sup> The Federal tax on motor gasoline and diesel fuel increased 5.0 cents, to 14.1 and 20.1 cents, respectively, on December 1, 1990.

<sup>3</sup> Additional State taxes are levied as follows: California: 7.25-8.25 percent sales tax; Connecticut: 5 percent gross earnings tax; Georgia: 3 percent second motor fuel tax plus 1 percent sales tax; Hawaii: 4 percent sales tax; Illinois: sales tax varies by jurisdiction, from 6.25 to 8.0 percent; Indiana: 5 percent sales and use tax; Iowa: 1 percent environmental protection tax; Louisiana: 3 percent motor gasoline, 4 percent diesel for off-road use; Michigan: 4 percent sales tax; New York: 4 percent sales tax; Virginia: sales and use tax of 2 percent in areas where mass transit systems exist.

<sup>4</sup> Local option taxes are allowed. In Florida, the State assesses a SCETS tax of two-thirds the county rate (of 1 to 6 cents per gallon) in addition to the regular excise tax. In Hawaii, LOTS are as follows: Honolulu: 16.5 cents per gallon; Maui: 9.0 cents per gallon; Hawaii: 8.8 cents per gallon; Kauai: 10.0 cents per gallon.

Source: State revenue/taxation offices.

<sup>5</sup> UNDEFINED

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**Table EN 2. U.S. Postal Two-Letter State Abbreviations**

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AL	Alabama	KY	Kentucky	ND	North Dakota
AK	Alaska	LA	Louisiana	OH	Ohio
AZ	Arizona	ME	Maine	OK	Oklahoma
AR	Arkansas	MD	Maryland	OR	Oregon
CA	California	MA	Massachusetts	PA	Pennsylvania
CO	Colorado	MI	Michigan	RI	Rhode Island
CT	Connecticut	MN	Minnesota	SC	South Carolina
DE	Delaware	MS	Mississippi	SD	South Dakota
DC	District of Columbia	MO	Missouri	TN	Tennessee
FL	Florida	MT	Montana	TX	Texas
GA	Georgia	NE	Nebraska	UT	Utah
HI	Hawaii	NV	Nevada	VT	Vermont
ID	Idaho	NH	New Hampshire	VA	Virginia
IL	Illinois	NJ	New Jersey	WA	Washington
IN	Indiana	NM	New Mexico	WI	Wisconsin
IA	Iowa	NY	New York	WV	West Virginia
KS	Kansas	NC	North Carolina	WY	Wyoming

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## Revision Error

The petroleum product price and volume data shown in this table are preliminary. These numbers are subject to revision upon publication based on more complete data received. For example, the month of February,

the February data are preliminary and the January data may have been revised due to the receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). The difference between the data when they appear in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected EIA-782 data series is shown in the following tables.

**Table EN3. Revision Error in Selected 1992 U.S. Average Price Data**  
(Cents per Gallon Excluding Taxes)

Date	Refiner/Reseller Unleaded Regular Sales to End Users			No. 2 Distillate Sales to Residential Customers			Residual Fuel Oil Sales to End Users		
	Preliminary	Final	Difference	Preliminary	Final	Difference	Preliminary	Final	Difference
January	68.3	68.4	-0.1	94.1	94.2	-0.1	29.3	28.8	0.5
February	67.4	67.6	-.2	94.0	94.2	-.2	28.0	27.7	.3
March	68.3	68.5	-.2	93.0	93.2	-.2	27.9	27.7	.2
April	72.1	72.1	.0	92.3	92.5	-.2	29.7	29.6	.1
May	77.4	77.4	.0	92.4	92.3	.1	33.4	33.4	0
June	80.4	80.5	-.1	92.4	92.0	.4	34.5	34.5	0
July	79.4	79.4	.0	90.4	90.4	0	36.7	36.7	.0
August	78.3	78.3	0	88.5	88.6	-.1	38.9	38.8	.1
September	78.4	78.4	.0	90.1	90.1	0	37.7	37.5	.2
October	77.4	77.4	0	93.9	93.7	.2	39.2	39.2	.0
November	76.6	76.6	0	94.7	94.8	-.1	39.4	39.4	0
December	73.3	73.3	0	94.5	94.5	.0	36.2	36.2	.0

Sources: Preliminary data are from Tables 15, 28, and 40 of the *Petroleum Marketing Monthly*. Final data are from Tables 15, 28, and 40 of the *Petroleum Marketing Annual, 1992*.

**Table EN4. Revision Error in Selected 1992 Refiner Sales Volume Data**  
(Million Gallons)

Date	Motor Gasoline Sales for Resale			No. 2 Distillate Sales for Resale			Residual Fuel Oil Sales to End Users		
	Preliminary	Final	Percent Change	Preliminary	Final	Percent Change	Preliminary	Final	Percent Change
January	7,689	7,735	-0.6	3,423	3,399	0.7	843	881	-4.5
February	7,328	7,332	-.1	2,965	2,960	.2	763	809	-6.0
March	8,029	8,046	-.2	3,123	3,095	.9	770	814	-5.7
April	8,191	8,144	.6	3,041	3,026	.5	632	685	-8.4
May	8,384	8,355	.3	2,829	2,799	1.1	572	604	-5.6
June	8,208	8,150	.7	2,791	2,771	.7	610	646	-5.9
July	8,499	8,458	.5	2,830	2,798	1.1	626	650	-3.8
August	8,277	8,241	.4	2,818	2,790	1.0	588	595	.5
September	8,048	8,048	0	3,157	3,163	-.2	605	601	.7
October	8,254	8,264	-.1	3,141	3,141	.0	611	610	.2
November	7,730	7,828	-1.3	2,946	2,989	-1.5	620	620	.0
December	8,556	8,550	.1	3,549	3,547	.1	676	689	-1.9

Sources: Preliminary data are from Tables 10, 45, and 46 of the *Petroleum Marketing Monthly* (PMM). Final data are from Tables 10, 45, and 46 of the *Petroleum Marketing Annual, 1992*.

**Table EN5. Revision Error in Selected Volumes of 1992 First Sales Data**  
(Million Gallons)

Date	Total Motor Gasoline			Total No. 2 Distillate			Total Residual Fuel Oil		
	Preliminary	Final	Percent Change	Preliminary	Final	Percent Change	Preliminary	Final	Percent Change
January	9,635	9,593	0.4	4,643	4,612	0.7	1,680	1,699	-1.1
February	8,205	9,183	.2	4,056	4,019	.9	1,524	1,511	.9
March	10,076	10,032	.4	4,278	4,247	.7	1,516	1,578	-4.1
April	10,076	10,111	-.3	4,064	4,057	.2	1,481	1,481	.0
May	10,346	10,360	-.1	3,730	3,723	.2	1,288	1,288	.0
June	10,157	10,149	.1	3,639	3,649	-.3	1,318	1,318	.0
July	10,568	10,568	.0	3,723	3,715	.2	1,349	1,348	.1
August	10,262	10,257	0	3,681	3,680	.0	1,070	1,067	.3
September	9,830	9,830	.0	3,903	3,896	.2	1,157	1,145	1.0
October	10,361	10,353	.1	4,201	4,195	.1	1,257	1,247	.8
November	9,680	9,656	.2	3,906	3,920	-.4	1,234	1,238	-.3
December	10,409	10,317	.9	4,541	4,518	.5	1,352	1,352	.0

Sources: Preliminary data are from Tables 47, 48, and 49 of the *Petroleum Marketing Monthly* (PMM). Final data are from Tables 47, 48, and 49 of the *Petroleum Marketing Annual, 1992*.

# The Crude Oil Price Surveys

## Background

### Form EIA-182: "Domestic Crude Oil First Purchasers' Report"

Each month, EIA-182 provides data from the buyers on first purchases of domestic crude oil. A "first purchase" constitutes a transfer of ownership of crude oil during or immediately after the physical removal of the crude oil from a production property for the first time. Transactions between affiliated companies are reported as if they were "arms-length" transactions. (This definition is consistent with the Windfall Profits Tax (WPT) concepts of "first sale" and "removal price.") The primary objective is to calculate an average first purchase price at various levels of aggregation. A company's monthly average first purchase prices are volume weighted across given geographical areas and are computed from the following reported data elements:

- **Area of production.** The producing State or non-State production "area" (i.e., Alaska North Slope, Alaska Other Mainland, Federal Offshore California and Federal Offshore Gulf-about one-fifth off Texas and the remainder off Louisiana).
- **Total amount paid.** Reported f.o.b. the lease boundary and based on the actual purchase expenditures, including discounts or premiums paid.
- **Total volume purchased.** The amount of crude bought and paid for as it is measured at the lease boundary (usually at a lease automatic custody transfer unit--a LACT unit), adjusted for basic sediment and water (BS&W) and temperature.

Prices published from data collected on Form EIA-182 are calculated by dividing the sum of the total amounts paid by the sum of the total volumes purchased.

### Form EIA-856: "Foreign Crude Oil Acquisition Report"

The EIA-856 provides monthly price and volume data for about 90 percent of all the crude oil imported into the United States. It also provides classification data that enable EIA to determine the terms of an acquisition. The data are reported for the parent company and all the affiliates controlled by the parent. Under this definition, the acquisition price reported for each cargo is the one paid to an unaffiliated seller, in principle an "arms-length" price, which is consistent with use of the data to represent market trends, rather than monitoring internal company transfer pricing policies.

Each month, respondents report the following for cargos acquired for U.S. importation:

- **Offshore inventories.** Crude oil owned by the respondent that is intended for importation into the United States. These inventories include oil in tankers enroute to the United States and floating or on-land storage outside the United States.
- **Crude type.** Includes the country of origin of the cargo of crude, the stream or type of crude oil (e.g., Saudi Light), and the API gravity.
- **Volume.** The number of 42 gallon barrels in the cargo.
- **Dates.** The date of loading/acquisition and the expected month of landing.
- **Transportation.** Ports of loading and landing and the name of the vessel.
- **Prices.** Acquisition cost, landed cost, and other costs such as demurrage, agent's fees, import tariffs and fees, etc. (all costs are reported in dollars per barrel).
- **Days credit.** The number of days credit is extended to the purchaser by the seller.
- **Purchase classifying information.** Type of transaction (e.g., purchase from host government), terms of transaction (spot or contract), and point of transaction (f.o.b. (free on board), country of origin or CIF (cost, insurance, and freight), U.S. port of entry).

Published prices are calculated by first multiplying the purchase volume by a price to obtain a total cost, then the sums of the total costs are divided by the sums of the purchase volumes.

The prices associated with data collected on Form EIA-856 are aggregated within the month of acquisition, which can be the month of loading, the month of landing, or sometime between those events. By design, the prices are not aggregated for the month in which they are determined, unless the acquisition and price determination month are the same. EIA-856 data reflect types of trades occurring over the entire spectrum of international crude oil markets, ranging from continuing supply agreements to spot market purchases. Prices can be determined at time of loading or at time of landing. Prices can be negotiated between the parties involved or tied to spot or futures market price levels. The methodology chosen for the EIA-856 provides a consistent historical series even though its prices may not always agree with measures of prices from other sources.

International crude oil markets are complex and dynamic. For example, a cargo of Saudi Arabian crude oil could be acquired in June at a loading port in Saudi Arabia. The cargo may land in the United States in August. The price for the crude oil could be determined by spot crude oil prices in effect during the 5 days

before and after landing. For the PMM, the price for this cargo will be aggregated in the month of June, when it was acquired. Conversely, a cargo of Brent crude may be acquired in June, but its price may have been determined in the forward Brent market in April. This cargo's price will also be aggregated in June, when the purchaser took title to the crude.

In the early 1980s, most crude oil prices were set by the country selling the crude. Gradually, as the supply of crude oil became more abundant, markets became more competitive. A robust spot market for crude evolved, in which prices for crude oil were determined by demand and supply. Frequently, the official sales price set by the selling government was considerably different than spot market assessments. As buyers began to purchase more crude oil on the spot market, the control that sellers had theretofore exercised eroded.

In order to protect their market share, crude oil producing governments began to tie prices for their crude to market-related prices. When these market-related pricing formulae came into prominence in late 1985, many crude oil prices were tied to a "netback realization," wherein a crude oil's value was determined by volume weighted spot market prices of products derivable from that crude. The weights essentially reflected the relative yield of selected products from a given crude stream. These netback-based formulae gradually gave way to formulae based on spot crude oil assessments.

The formulae and terms used by sellers of crude oil continue to change. Since the EIA-856 prices are aggregated by month of acquisition--not necessarily the same as month of price determination--they may not always show the same pattern as a series from another source (e.g., trade-press publications). During periods of dramatic change in crude oil prices, aggregate prices derived from EIA-856 data will tend to "lead" the market. That is, these prices will show the emerging trend earlier, reach the inflection point sooner, and then return to the underlying trend. When averaged over longer periods of time, however, EIA-856 prices show the same relative price movements as exogenous sources.

#### **Form EIA-14: "Refiners' Monthly Cost Report"**

The EIA-14 is a monthly census of all U.S. refiners. It collects the net acquisition costs and volumes of crude oil, both domestic and imported, on a corporate national basis (i.e., not for individual refineries). Included in the costs are all charges associated with the acquisition, transportation, and storage of crude incurred by respondents up to the time the oil is booked into their refineries.

Each month, refiners report the volume (in thousands of barrels) and costs (in thousands of dollars) for:

- **Domestic crude oil.** Oil produced in the United States or from its outer continental shelf.
- **Imported crude oil.** Oil produced outside the United States and brought into the United States for domestic processing.
- **Unfinished oils.** All other oils, both domestic and imported, requiring further refining, except those requiring only mechanical blending.

Average prices are calculated by dividing the sum of the costs by the sum of the volumes.

## **Respondent Frame**

### **EIA-182:**

All firms that buy domestic crude oil at the lease boundary, acquiring ownership of the crude in a first purchase transaction. The list initially was compiled from the 1974 Federal Energy Administration (FEA) Oil and Gas Survey of Producers and Operators. Collection of data from first purchasers began in February 1976. By 1978, the frame consisted of 340 respondents. Of these, 198 purchased more than 150,000 barrels per year and together represented 99.9 percent of the total reported volume.

Adjustments to the frame have mostly been "deaths," with relatively few "births." Following decontrol in January 1981, there was a major contraction of the list of active first purchasers. Many small firms went out of business or were absorbed by larger companies. More recent changes include several mergers among majors and one breakup of a major company. Currently, the EIA-182 survey collects data from 170 active respondents.

### **EIA-856:**

All companies that were reporting data on the ERA-51, "Transfer Pricing Report," as of June 1982, are required to prepare and submit an EIA-856 each month, regardless of the total volumes of crude oil that are imported. In addition, all other companies that acquire more than 500,000 barrels of foreign crude oil in the report month for importation into the United States are required to prepare and submit an EIA-856 for that month.

### **EIA-14:**

All refiners of crude oil in the United States, including its territories and possessions. There are currently 107 active respondents to the EIA-14.



The list of respondents to the EIA-14 is updated annually by supplementation from the EIA-782A, "Refiner/Gas Plant Operators' Monthly Petroleum Product Sales Report," and the EIA-810, "Monthly Refinery Report."

## Data Collection Processing

All three crude oil data collection systems are operated independently. Each performs similar data collection and processing functions that are outlined below.

Survey data are collected by mail every month. It is mandatory for each respondent to submit completed forms to EIA no later than 30 calendar days after the close of each reference month. Telephone follow-up calls to nonrespondents begin 2 days after the established due date in order to collect all outstanding data. Late submissions and resubmissions are processed when received.

The forms are logged and reviewed manually. The data are then entered onto computer files. The files are then processed through an automated edit program which detects missing data, inconsistent prices, and outlying values that affect published estimates. Data that fail the edits are resolved through telephone calls to data reporters, and corrections and verification codes are entered onto computer files. Statistical reports, including publication tables, are then generated using only acceptable and verified data. Response rates are normally 100 percent by the time final statistics are calculated.

## Nondisclosure

The data contained in this publication are subject to statistical nondisclosure procedures. The objective of the disclosure-avoidance procedures, as stated in the Energy Information Administration Standard 88-05-06, Subject: "Nondisclosure of Company Identifiable Data in Aggregate Cells," is to ensure that confidential, company-identifiable data are not disclosed in tables where "company specific responses may be proprietary and prohibited from public disclosure by 18 U.S.C. 1905." Statistics representing data aggregated from fewer than three companies or that are dominated by input from one or two companies are withheld. EIA identifies cells that are sensitive according to these criteria by applying a statistical formula to the data contained in each cell to determine if a few companies "dominate" the cell.

If a cell is sensitive, the data in that cell are suppressed and a "W" is placed in the publication cell. Also, since

many tables include row or column totals, some nonsensitive data cells have been suppressed to prevent the reader from calculating the suppressed numbers by simply subtracting the published numbers from the total.

## Data Continuity

The crude oil statistics published in the *Petroleum Marketing Monthly* constitute both a republishing of numbers that already appear in the *Monthly Energy Review* (MER) and the *Annual Energy Review* (AER), and a simple extension of the detail of such statistics. These statistics have been published for a number of years in the MER and AER. The data currently collected through the crude oil surveys are compatible with data used to derive statistics for the historical series. The definitions, respondents, and processing have not changed substantially over the years the data have been collected. The target populations and the computational algorithms have remained virtually unchanged.

## Reliability of Data

There are two types of errors possible in an estimate based on a sample survey: sampling and nonsampling. Sampling errors occur because observations are made only on a sample, not on the entire population. Since the crude oil surveys are based on a census of the population, these surveys contain no sampling error.

Nonsampling errors can be attributed to many sources: (1) inability to obtain complete information from all respondents in the survey (i.e., nonresponse), (2) response errors, (3) definitional difficulties, (4) differences in the interpretation of questions, (5) mistakes in recording or coding the data obtained, and (6) other errors of collection, response, coverage, and estimation for missing data.

Although no direct measurement of the biases due to nonsampling errors can be obtained, precautionary steps were taken in all phases of the frame development and data collection, processing, and tabulation processes, in an effort to minimize their influence. In addition, the close cooperative consultation between EIA and the survey respondents and data users results in a more accurate information gathering and reporting process.



## Imputation

Since the response rates for the crude oil survey are virtually 100 percent, there are no imputation procedures in the PMM data for nonresponse to these surveys. Imputation is performed, however, on EIA-182 volume data used in estimating crude oil production published in the *Petroleum Supply Monthly* (PSM). Since production estimates for the PSM are required on an expedited schedule, some responses are imputed for the PSM. However, all responses are received prior to the publication of the PMM, thus no imputation is required for the price data published in the PMM. See Note 8 in the Explanatory Notes in the PSM for additional information on the use of EIA-182 data in estimating domestic crude oil production.

## Revision Error

The crude oil values shown for Domestic First Purchase Prices and Refiner Acquisition Cost (RAC) for the current month and for Average Landed Costs for the current 2 months are preliminary. These numbers are revised in the month after the preliminary month(s) based on data received late or revisions received. For example, in the February publication, the February RAC data are preliminary and the January RAC data may have been revised due to receipt of late or revised data. The data are final upon publication in the *Petroleum Marketing Annual* (PMA). The difference between the data when they first appear in the *Petroleum Marketing Monthly* (PMM) and when they appear in the PMA is called the revision error. The amount of revision error for some selected crude oil data series is shown in the tables which follow.

**Table EN6. 1992 Revision Error: Form EIA-14<sup>1</sup>**  
(Dollars per Barrel)

Date	Refiner Acquisition Costs								
	Domestic			Imported			Composite		
	Preliminary	Final	Difference	Preliminary	Final	Difference	Preliminary	Final	Difference
January	16.76	16.80	-0.04	15.98	16.10	-0.12	16.42	16.50	-0.08
February	16.48	16.54	-0.06	16.17	16.00	.17	16.35	16.30	.05
March	16.81	16.71	.10	16.36	16.38	.00	16.62	16.56	.06
April	17.89	17.88	.00	17.37	17.37	.00	17.66	17.66	.00
May	18.86	18.86	.00	18.79	18.79	.00	18.83	18.83	.00
June	20.02	20.13	-.11	19.63	19.83	-.20	19.84	19.99	-.15
July	20.42	20.42	.00	19.74	19.74	.00	20.10	20.10	.00
August	19.84	19.84	.00	19.25	19.25	.00	19.56	19.56	.00
September	19.88	19.88	.00	19.26	19.26	.00	19.59	19.59	.00
October	19.64	19.64	.00	19.22	19.34	-.12	19.44	19.49	-.05
November	18.81	18.90	-.09	18.37	18.40	-.03	18.60	18.66	-.06
December	17.85	17.85	.00	16.94	16.94	.00	17.43	17.43	.00

<sup>1</sup> "Refiners' Monthly Cost Report"

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1992.

**Table EN7. 1992 Revision Error: Form EIA-182<sup>1</sup>**  
(Dollars per Barrel)

Month	Preliminary	Final	Difference
January	13.94	13.99	-0.05
February	13.98	14.04	-.06
March	14.12	14.12	.00
April	15.37	15.36	.01
May	16.42	16.38	.04
June	17.98	17.86	.02
July	17.80	17.80	.00
August	17.09	17.07	.02
September	17.19	17.20	-.01
October	17.16	17.16	.00
November	16.03	16.00	.03
December	14.93	14.94	-.01

<sup>1</sup> "Domestic Crude Oil First Purchase Report"

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual*, 1992.

**Table EN8. 1992 Revision Error: Form EIA-856<sup>1</sup>**  
(Dollars per Barrel)

Month	FOB Cost of Imports			Landed Cost of Imports		
	Preliminary	Final	Difference	Preliminary	Final	Difference
January	14.15	14.32	-0.17	15.14	15.28	-0.14
February	14.36	14.68	-.32	15.30	15.60	-.30
March	14.64	14.96	-.32	15.64	16.00	-.36
April	16.13	16.57	-.44	16.85	17.40	-.55
May	17.27	17.56	-.29	18.09	18.38	-.29
June	18.36	18.38	-.02	19.42	19.44	-.02
July	17.94	18.01	-.07	19.08	19.13	-.05
August	17.61	17.65	-.04	18.63	18.74	-.11
September	18.01	18.04	-.03	18.88	18.90	-.02
October	17.80	17.68	.12	18.90	18.75	.15
November	16.45	16.49	-.04	17.79	17.64	.15
December	15.49	15.62	-.13	16.48	16.58	-.10

<sup>1</sup> "Monthly Foreign Crude Oil Acquisition Report"

Sources: Preliminary data are from Table 1 of the *Petroleum Marketing Monthly* for each respective month. Final data are from Table 1 of the *Petroleum Marketing Annual, 1992*.

# Product Guide

# Product Guide

Category	Table		
	Prices	Volumes	Prime Supplier Sales
<b>Crude Oil</b>			
Refiner Acquisition Cost			
U.S. Average	1	--	--
-by type of refiner	19	--	--
Domestic First Purchases			
U.S. Average	1	--	--
U.S., PAD District, and State	20	--	--
<b>Imports</b>			
FOB Costs	1	--	--
-from selected countries	21	--	--
-by API gravity	23	--	--
-for selected crude streams	26	--	--
Landed Costs			
-from selected countries	22	--	--
-by API gravity	24	--	--
-for selected crude streams	27	--	--
<b>Motor Gasoline</b>			
U.S. Average or Total	HL1	HL1	47
-by seller type	6, 7	8, 9	--
-detailed sales type data	10	10	--
-from 1978 to present	2, 4, 13	--	--
-from 1983 to present	11	3, 5, 12, 14	--
U.S., PAD District, and State			
-by seller type with			
detailed sales type data	28, 29, 30	42	--
U.S. and State	--	--	47
<b>Leaded Motor Gasoline</b>			
U.S. Average or Total	HL1	HL1	47
-by seller type	6, 7	8, 9	--
U.S., PAD District, and State			
-detailed sales type data	28, 29, 31	43	--
U.S. and State	--	--	47
<b>Unleaded Regular Motor Gasoline</b>			
U.S. Average or Total	HL1	HL1	47
-by seller type	6, 7	8, 9	--
U.S., PAD District, and State			
-detailed sales type data	28, 29, 32	43	--
U.S. and State	--	--	47
<b>Unleaded Midgrade Motor Gasoline</b>			
U.S. Average or Total	HL1	HL1	47
-by seller type	6, 7	8, 9	--
U.S., PAD District, and State			
-detailed sales type data	28, 29, 33	43	--
U.S. and State	--	--	47
<b>Premium Motor Gasoline</b>			
U.S. Average or Total	HL1	HL1	47
-by seller type	6, 7	8, 9	--
U.S., PAD District, and State			
-detailed sales type data	28, 29, 34	43	--
U.S. and State	--	--	47

# Product Guide

Category	Table		
	Prices	Volumes	Prime Supplier Sales
<b>Aviation Gasoline</b>			
U.S. Average or Total ..	HL1	HL1	48
-by seller type ..	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State	35	44	--
U.S. and State .....	--	--	48
<b>Kerosene-Type Jet Fuel</b>			
U.S. Average or Total ..	HL1	HL1	48
-by seller type ..	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State	35	44	--
U.S. and State .....	--	--	48
<b>Propane, Consumer Grade</b>			
U.S. Average or Total ....	HL1	HL1	48
-by seller type ..	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State	35	44	--
U.S. and State ..	--	--	48
<b>Kerosene</b>			
U.S. Average or Total ...	HL1	HL1	--
-by seller type ...	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State	36	45	--
<b>No. 1 Distillate</b>			
U.S. Average or Total .....	HL1	HL1	--
-by seller type .....	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State ...	36	45	--
<b>No. 2 Distillate</b>			
U.S. Average or Total .....	HL1	HL1	49
-by seller type .....	6, 7	8, 9	--
-from 1978 to present .....	2, 4, 16	--	--
-from 1983 to present ...	15	3, 5	--
U.S., PAD District, and State	--	--	--
-with detailed sales type data ..	36, 37, 38	45	--
U.S. and State ..	--	--	49
<b>No. 2 Fuel Oil</b>			
U.S. Average or Total ..	HL1	HL1	49
-by seller type ..	6, 7	8, 9	--
-from 1978 to present ...	2, 4	--	--
-from 1983 to present ...	--	3, 5	--
U.S., PAD District, and State	--	--	--
-with detailed sales type data ..	39	--	--
U.S. and State ..	--	--	49

# Product Guide

Category	Table		
	Prices	Volumes	Prime Supplier Sales
<b>No. 2 Diesel Fuel</b>			
U S Average or Total	HL1	HL1	49
-by seller type	6, 7	8, 9	--
-from 1978 to present	2, 4	--	--
-from 1983 to present	--	3, 5	--
U S and State	--	--	49
<b>No. 4 Fuel</b>			
U S Average or Total	HL1	HL1	--
-by seller type	6, 7	8, 9	--
-from 1978 to present	2, 4	--	--
-from 1983 to present	--	3, 5	--
U S and PAD District	40	46	--
<b>Residual Fuel Oil</b>			
U S Average or Total	HL1	HL1	48
-by seller type	6, 7	8, 9	--
-from 1978 to present	2, 4, 17	--	--
-from 1983 to present	--	3, 5, 18	--
U S, PAD District, and/or State	40, 41	46	--
U S and State	--	--	48
<b>Residual Fuel Oil (sulfur content less than or equal to 1 percent)</b>			
U S Average or Total	HL1	HL1	--
-by seller type	6, 7	8, 9	--
-from 1978 to present	17	--	--
-from 1983 to present	--	18	--
U S, PAD District, and/or State	40, 41	46	--
<b>Residual Fuel Oil (sulfur content greater than 1 percent)</b>			
U S Average or Total	HL1	HL1	--
-by seller type	6, 7	8, 9	--
-from 1978 to present	17	--	--
-from 1983 to present	--	18	--
U S, PAD District, and/or State	40, 41	46	--

-- = Not applicable

## Glossary





# Glossary

**API Gravity:** An arbitrary scale expressing the gravity or density of liquid petroleum products. The measuring scale is calibrated in terms of degrees API; it may be calculated in terms of the following formula:

$$\text{Deg API} = \frac{141.5}{\text{sp gr}_{60\text{degF}/60\text{degF}}} - 131.5$$

The higher the API gravity, the lighter the compound. Light crudes generally exceed 38 degrees API and heavy crudes are commonly labeled as all crudes with an API gravity of 22 degrees or below. Intermediate crudes fall in the range of 22 degrees to 38 degrees API gravity.

**Aviation Gasoline (Finished):** All special grades of gasoline for use in aviation reciprocating engines, as given in ASTM Specification D 910 and Military Specification MIL-G-5572. Excludes blending components which will be used in blending or compounding into finished aviation gasoline.

**Barrel:** One barrel of crude oil contains 42 gallons.

**CIF:** Cost, insurance, and freight. A transaction for which the seller assumes the costs and risks of bringing the product to the point of destination (generally the port of landing). Thus, a CIF price is a delivered price.

**Commercial/Institutional:** Firms engaged in transportation, wholesale or retail trade, finance, insurance, and real estate. Also included are apartment buildings/complexes and other multifamily dwellings, hotels and office buildings or complexes, local, State, or Federal facilities or organizations including the military, schools, hospitals, religious institutions, universities, and all other Government-supported organizations.

**Company Outlet:** Any retail outlet (e.g., service station) selling gasoline or diesel fuel that is under the direct control of the company filing this report by virtue of the ability to set the retail product price and directly collect all or part of the retail margin. This category includes retail outlets: (1) being operated by salaried employees of the company and/or its subsidiaries and affiliates, and/or (2) involving personnel services contracted by the company.

**Crude Oil (including lease condensate):** A mixture of hydrocarbons that existed in liquid phase in under-

ground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Includes lease condensate and drip gas, as well as liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Excludes topped crude oil, residual oil, other unfinished oils, and liquids produced at natural gas processing plants and mixed with crude oil, where identifiable. Crude oil is considered as either domestic or imported according to the following:

1. **Domestic Crude Oil:** Crude oil produced in the United States or from its "outer continental shelf" as defined in 43 U.S.C. 1331.
2. **Imported Crude Oil:** Crude oil produced outside the United States and brought into the United States.
3. **First purchase volume and cost data for crude oil** are classified in accordance with what the product was sold as, regardless of the actual specifications. Hence, its volumes may include some of the excluded liquids discussed above.

**Crude Oil Acquisitions (unfinished oil acquisitions):** The volume of crude oil either (1) acquired by the respondent for processing for his own account in accordance with accounting procedures generally accepted and consistently and historically applied by the refiner concerned, or (2) in the case of a processing agreement, delivered to another refinery for processing for the respondent's own account.

Crude oil which has been added by a refiner to inventory, and which is thereafter sold or otherwise disposed of without processing for the account of that refiner, shall be deducted from its crude oil purchases at the time when the related cost is deducted from refinery inventory in accordance with accounting procedures generally applied by the refiner concerned.

**Distillate Fuel Oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. It is used primarily for space heating, on- and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels.

1. **No. 1 Distillate:** A petroleum distillate which meets the specifications for No. 1 heating or fuel

oil as defined in ASTM D 396 and/or the specifications for No. 1 diesel fuel as defined in ASTM Specification D 975

- a. **No. 1 Diesel Fuel:** A volatile distillate fuel oil with a boiling range between 300-575 degrees Fahrenheit and used in high-speed diesel engines generally operated under wide variations in speed and load. Includes type C-B diesel fuel used for city buses and similar operations. Properties are defined in ASTM Specification D 975.
  - b. **No. 1 Fuel Oil:** A light distillate fuel oil intended for use in vaporizing pot-type burners. ASTM Specification D 396 specifies for this grade maximum distillation temperatures of 400 degrees Fahrenheit at the 10-percent recovery point and 550 degrees Fahrenheit at the 90-percent point, and kinematic viscosities between 1.4 and 2.2 centistokes at 100 degrees Fahrenheit.
2. **No. 2 Distillate:** A petroleum distillate which meets the specifications for No. 2 heating or fuel oil as defined in ASTM D 396 and/or the specifications for No. 2 diesel fuel as defined in ASTM Specification D 975.
- a. **No. 2 Diesel Fuel:** A gas oil type distillate of lower volatility with distillation temperatures at the 90-percent point between 540-640 degrees Fahrenheit for use in high speed diesel engines generally operated under uniform speed and load conditions. Includes Type R-R diesel fuel used for railroad locomotive engines, and Type T-T for diesel-engine trucks. Properties are defined in ASTM Specification D 975.
  - b. **No. 2 Fuel Oil:** A distillate fuel oil for use in atomizing type burners for domestic heating or for moderate capacity commercial-industrial burner units. ASTM Specification D 396 specifies for this grade distillation temperatures at the 90-percent point between 540 and 640 degrees Fahrenheit, and kinematic viscosities between 2.0 and 3.6 centistokes at 100 degrees Fahrenheit.

**NOTE:** Published volume and price data for No. 2 diesel fuel and No. 2 fuel oil are classified in accordance to what the product was sold as, regardless of the actual specifications of that product; i.e., if a No. 2 distillate was sold as a heating or fuel oil, the volume and price would be published in the category "No. 2 Fuel Oil" even if the product conformed to the higher specifications of a diesel fuel.

3. **No. 4 Fuel:** A fuel oil for commercial burner installations not equipped with preheating facilities. It is used extensively in industrial plants. This

grade is a blend of distillate fuel oil and residual fuel oil stocks that conforms to ASTM Specification D 396 or Federal Specification VV-F-815C; its kinematic viscosity is between 5.8 and 26.4 centistokes at 100 degrees Fahrenheit. Also included is No. 4-D, a fuel oil for low- and medium-speed diesel engines that conforms to ASTM Specification D 975.

**First Purchase (of crude oil):** An equity (not custody) transaction involving an arms-length transfer of ownership of crude oil associated with the physical removal of the crude oil from a property (lease) for the first time. A first purchase normally occurs at the time and place of ownership transfer where the crude oil volume sold is measured and recorded on a run ticket or other similar physical evidence of purchase. The reported cost is the actual amount paid by the purchaser, allowing for any adjustments (deductions or premiums) passed on to the producer or royalty owner.

**F.O.B. Price (free on board):** The f.o.b. price is the price actually charged at the producing country's port of loading. The reported price includes deductions for any rebates and discounts or additions of premiums where applicable and should be the actual price paid with no adjustment for credit terms.

**Gas Plant Operator:** Any firm, including a gas plant owner, which operates a gas plant and keeps the gas plant records. A gas plant is a facility in which natural gas liquids are separated from natural gas, or in which natural gas liquids are fractionated or otherwise separated into natural gas liquid products or both. For the purposes of this publication, gas plant operator data are contained in the refiner categories.

**Gasohol:** A blend of finished motor gasoline (leaded or unleaded) and alcohol (generally ethanol but sometimes methanol) in which 10 percent or more of the product is alcohol. For the purposes of this publication, gasohol may be included in any of the grades of gasoline, depending on how it was marketed.

**Industrial:** Firms engaged in mining, construction, or manufacturing.

**Kerosene:** A petroleum distillate that has a maximum distillation temperature of 401 degrees Fahrenheit at the 10-percent recovery point, a final boiling point of 572 degrees Fahrenheit, and a minimum flash point of 100 degrees Fahrenheit. Included are the two grades designated in ASTM D3699: No. 1-K and No. 2-K, and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

**Kerosene-Type Jet Fuel:** A quality kerosene product with an average gravity of 40.7 degrees API, and a 10-percent distillation temperature of 400 degrees Fahrenheit. It is covered by ASTM Specification D

1655 and Military Specification MIL-T-5624L (Grades JP-5 and JP-8). A relatively low freezing point distillate of the kerosene type, it is used primarily for commercial turbojet and turboprop aircraft engines.

**Landed Cost:** Landed cost represents the dollar per barrel price of crude oil at the port of discharge. Includes charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

**Major Refiners:** Refiners with a total refinery capacity in the United States and its possessions of greater than or equal to 275,000 barrels per day as of January 1, 1982. See Tables 5 and 6 of the *Petroleum Supply Annual*, 1981 (pages 107-137) for a listing of refiners and their capacities. The following companies comprise the major refiners for this survey:

Amerada Hess; Amoco Oil Company; Ashland Oil, Inc.; Atlantic Richfield Company; BP Oil; Champlin Refining; Chevron; Citgo Petroleum; Conoco Inc.; Exxon; Lyondell Petrochemical; Marathon Oil Company; Mobil Oil Corporation; Phillips Petroleum Company; Shell Oil Company; Star Enterprise; Sun Company, Inc.; Texaco, Inc.; Unocal (formerly Union Oil Company of California); and Uno-Ven Company.

Prior to being acquired by other major refiners, Getty Oil Company and the Gulf Oil Corporation were also included as major refiners.

**Motor Gasoline (Finished):** A complex mixture of relatively volatile hydrocarbons, with or without small quantities of additives, blended to form a fuel suitable for use in spark-ignition engines. Specifications for motor gasoline, as given in ASTM Specification D 439-88 or Federal Specification VV-G-1690B, include a boiling range of 122 to 158 degrees Fahrenheit at the 10-percent point to 365 to 374 degrees Fahrenheit at the 90-percent point and a Reid vapor pressure range from 9 to 15 psi. "Motor gasoline" includes finished leaded gasoline, finished unleaded gasoline, and gasohol. Blendstock is excluded until blending has been completed. (Alcohol that is to be used in the blending of gasohol is also excluded.)

1. **Leaded Regular Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than or equal to 87 and less than or equal to 90, and containing more than 0.05 grams of lead or 0.005 grams of phosphorus per gallon.
2. **Unleaded Regular Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than or equal to 85 and less than 88, and containing not more than 0.05 grams of lead or 0.005 grams of phosphorus per gallon.

3. **Unleaded Midgrade Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than or equal to 88 and less than or equal to 90, and containing not more than 0.05 grams of lead or 0.005 grams of phosphorus per gallon.

4. **Premium Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than 90. Includes both leaded and unleaded premium gasoline.

- a. **Leaded Premium Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than 90, and containing more than 0.05 grams of lead or 0.005 grams of phosphorus per gallon.

- b. **Unleaded Premium Gasoline:** Gasoline having an antiknock index ( $R+M/2$ ) greater than 90, and containing not more than 0.05 grams of lead or 0.005 grams of phosphorus per gallon.

**Naphtha:** A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400 degrees F.

**Naphtha-Type Jet Fuel:** A fuel in the heavy naphtha boiling range with an average gravity of 52.8 degrees API and 20 to 90 percent distillation temperatures of 290 degrees to 470 degrees F., meeting Military Specification MIL-T-5624L (Grade Jp-4). JP-4 is used for turbojet and turboprop aircraft engines, primarily by the military. Excludes ram-jet and petroleum rocket fuels.

**OPEC:** The acronym for the Organization of Petroleum Exporting Countries, oil-producing and exporting countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Ecuador, Gabon, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

**Other End Users:** For motor gasoline, all direct sales to end users other than those made through company outlets. For No. 2 distillate, all direct sales to end users other than residential, commercial/institutional, industrial sales, and sales through company outlets. Included in the "other end users" category are sales to utilities and agriculture.

**Other Refiners:** Refiners with a total refinery capacity in the United States and its possessions of less than 275,000 barrels per day as of January 1, 1982. See Tables 5 and 6 of the *Petroleum Supply Annual*, 1981 (pages 107-137) for a listing of refiners and their capacities.

**PAD District:** Petroleum Administration for Defense Districts

**PAD District I:**

**Subdistrict IA:** Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont

**Subdistrict IB:** Delaware, District of Columbia, Maryland, New Jersey, New York, Pennsylvania.

**Subdistrict IC:** Florida, Georgia, North Carolina, South Carolina, Virginia, West Virginia.

**PAD District II:**

Illinois, Indiana, Iowa, Kansas, Kentucky, Michigan, Minnesota, Missouri, Nebraska, North Dakota, South Dakota, Ohio, Oklahoma, Tennessee, Wisconsin.

**PAD District III:**

Alabama, Arkansas, Louisiana, Mississippi, New Mexico, Texas, Federal Offshore Gulf.

**PAD District IV:**

Colorado, Idaho, Montana, Utah, Wyoming.

**PAD District V:**

Alaska (North Slope and Other Mainland), Arizona, California, Hawaii, Nevada, Oregon, Washington, Federal Offshore California.

**Prime Supplier:** A firm that produces, imports, or transports any of the selected petroleum products across State boundaries and local marketing areas and sells the product to local distributors, local retailers, or end users.

**Propane, Consumer Grade:** A normally gaseous paraffinic compound (C<sub>3</sub>H<sub>8</sub>), which includes all products covered by Natural Gas Policy Act (NGPA) Specifications for commercial use and HD-5 propane and ASTM Specification D 1835. Excludes feedstock propanes, which are propanes not classified as consumer grade propanes, including the propane portion of any natural gas liquids (NGL) mixes; i.e., butane-propane mix.

**Reference Month:** The calendar month and year to which the reported cost, price, and volume information relates.

**Refiner:** A firm or the part of a firm that refines products or blends and substantially changes products, or refines liquid hydrocarbons from oil and gas field gases, or recovers liquefied petroleum gases incident to petroleum refining and sells those products to resellers, retailers, resellers/retailers, or ultimate consumers. "Refiner" includes any owner of products which contracts to have those products refined and then sells the refined products to resellers, retailers, or ultimate consumers. For the purposes of this publication, gas plant operator data are included in this category.

**Reseller:** A firm (other than a refiner) that carries on the trade or business of purchasing refined petroleum products and reselling them without substantially changing their form to purchasers other than ultimate consumers.

**Reseller/Retailer:** A firm (other than a refiner) that carries on the trade or business activities of both a reseller and a retailer; i.e., purchasing refined petroleum products and reselling them without substantially changing their form to purchasers who may be either ultimate or other than ultimate consumers.

**Residential:** In cases of sales of No. 2 fuel oil, includes individual customers or households (as opposed to businesses or institutions) that ostensibly use the fuel in a residence. Sales to apartment buildings/complexes or to other multifamily dwellings are excluded from the residential category and are included in the commercial/institutional category.

**Residual Fuel Oils:** The topped crude of refinery operations, which includes No. 5 and No. 6 fuel oils as defined in ASTM Specification D 396 and Federal Specification VV-F-815C, Navy Special fuel oil as defined in Military Specification MIL-F-859E including Amendment 2 (NATO symbol F-77), and bunker C fuel oil. Residual fuel oil is used for the production of electric power, space heating, vessel bunkering, and various industrial purposes.

**Retailer:** A firm (other than a refiner, reseller, or reseller/retailer) that carries on the trade or business of purchasing refined petroleum products and reselling them to ultimate consumers without substantially changing their form.

**Sale:** The transfer of title from the seller to a buyer for a price. Excludes intrafirm transfers, products consumed directly by the reporting firm, or sales of bonded fuel. Also excludes products delivered/loaned to exchange partners, except where the amount given up exceeds the amount received and the differential is invoiced as a sale during the reference month.

**Sales to End Users:** Sales made directly to the consumer of the product. Includes bulk consumers such as agriculture, industry, and utilities, as well as residential and commercial consumers.

**Sales for Resale:** Sales of refined petroleum products to purchasers who are other-than-ultimate consumers; wholesale sales.

**Sales Type:** Sales categories of sales to end users and sales for resale.

**Seller Type:** Categories of major refiners and other refiners and gas plant operators.

**Unit Price:** Total revenue derived from the sale of product during the reference month divided by the

total volume sold; also known as the weighted average price. Total revenue excludes all taxes but includes transportation costs that were paid as part of the purchase price.

**United States:** For the crude oil statistics, the United States includes the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all American Territories and Possessions. For the petroleum products data, United States includes the 50 States and the District of Columbia.

**Wellhead:** The point at which the crude (and/or natural gas) exits the ground. Following historical precedent, the volume and price for crude oil production are labeled as "wellhead," even though the cost and volume are now generally measured at the lease boundary. In the context of domestic crude price data, the term "wellhead" is the generic term used to reference the production site or lease property.





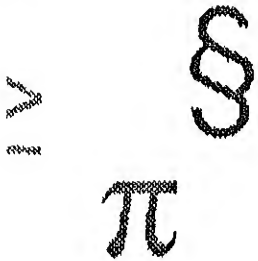
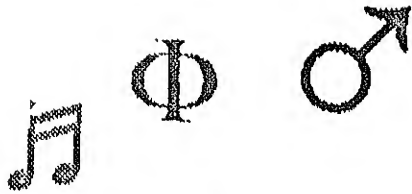
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